

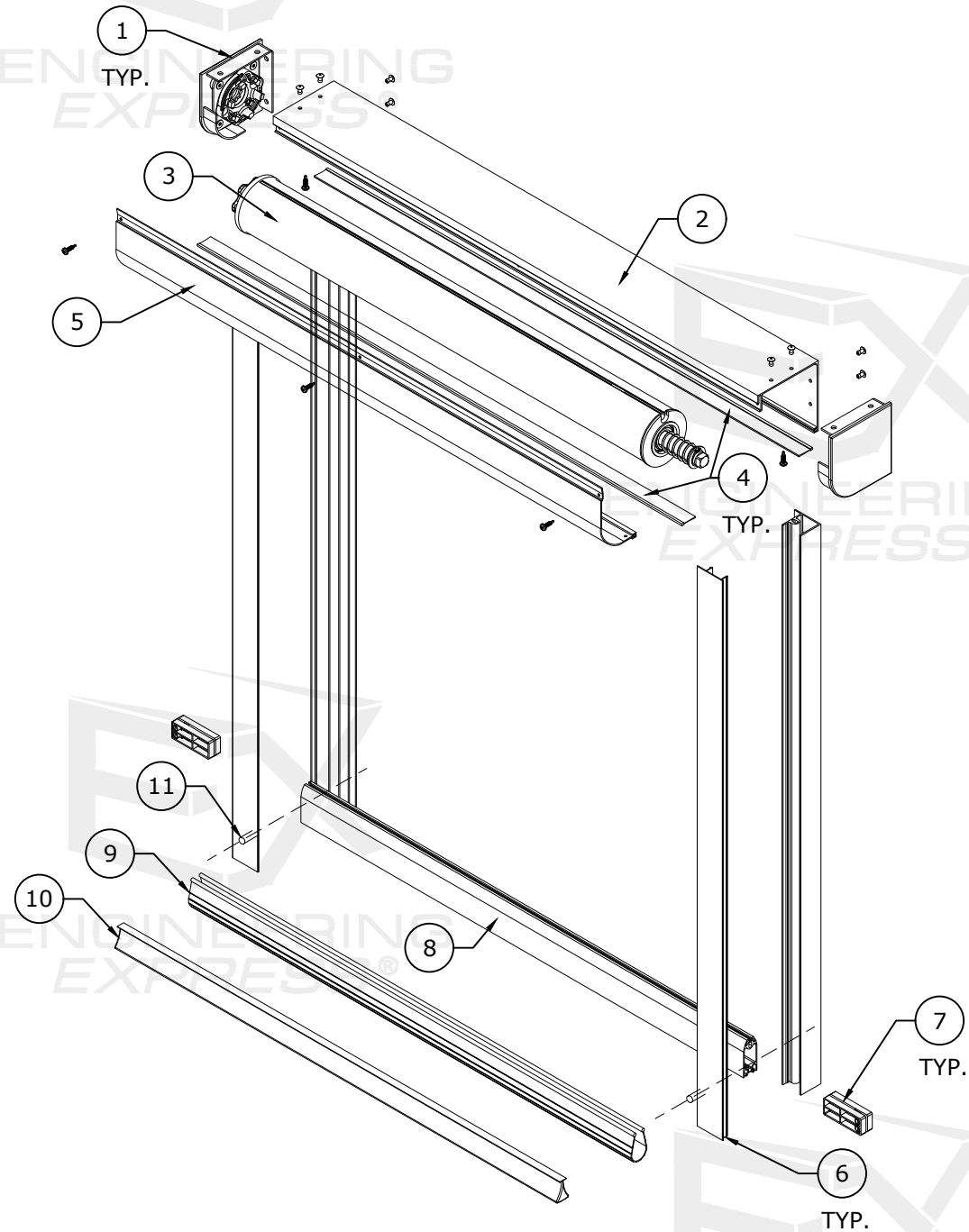
SUNPRO MOTORIZED AWNINGS & SCREENS

SA TRACK HURRICANE SCREEN

LARGE MISSILE IMPACT RESISTANT (MISSILE LEVEL D)

VALID FOR USE INSIDE AND OUTSIDE THE HVHZ (SEE LIMITATIONS HEREIN)

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1 SAMPLE ASSEMBLY
01 NOT TO SCALE ISOMETRIC VIEW

NOTE: SEE HEREIN FOR COMPONENT CALL-OUTS.

PAGE INDEX:

DESCRIPTION	PAGE #
COVER PAGE	01
DESIGN & GENERAL NOTES	02
SYSTEM COMPONENTS	03 - 07
BOTTOM BAR SUPPORT ANGLE DIRECTIVE	08
WALL, TRAP, & BUILD-OUT DETAILS	09-10
ANCHOR SCHEDULE NOTES	11
WALL MOUNT: ANCHOR SCHEDULES	12-14
TRAP MOUNT: ANCHOR SCHEDULES	15-17
BUILD-OUT MOUNT: ANCHOR SCHEDULES	18-20
GLASS SEPARATION SCHEDULE	21
MULLION SCHEDULES & DETAILS	22-27
MULLION END ATTACHMENTS	28-29
MULLION ANCHOR SCHEDULE	30

TERMINOLOGY:

THE FOLLOWING ABBREVIATIONS APPEAR IN THIS APPROVAL:

"ALUM" FOR "ALUMINUM", "ASD" FOR "ALLOWABLE STRESS DESIGN", "ASTM" FOR "AMERICAN SOCIETY FOR TESTING AND MATERIALS", "CS" FOR "CARBON STEEL", "EMBED" FOR "EMBEDMENT", "EQ" OR "EQUIV." FOR "EQUIVALENT", "FBC" FOR "FLORIDA BUILDING CODE", "FL #" FOR "FLORIDA STATEWIDE PRODUCT APPROVAL NUMBER", "ft" OR " ' " FOR "FEET", "G" FOR "SPECIFIC GRAVITY", "GA" FOR "GAUGE", "GFB" FOR "GROUT-FILLED BLOCK", "GR" FOR GRADE, "HVHZ" FOR "HIGH-VELOCITY HURRICANE ZONE", "in" OR " ' " FOR "INCHES", "KSI" FOR "1,000 lb / in²", "LB" FOR "POUND", "MAX" FOR "MAXIMUM", "MIN" FOR "MINIMUM", "O.C." FOR "ON-CENTER", "PERP" FOR "PERPENDICULAR", "PSI" FOR "POUNDS PER SQUARE INCH (lb/in²)", "PSF" FOR "POUNDS PER SQUARE FOOT (lb/ft²)", "SAE" FOR "SOCIETY OF AUTOMOTIVE ENGINEERING", "SPECS" FOR "SPECIFICATIONS", "SMS" FOR "SHEET METAL SCREWS", "SS" FOR "STAINLESS STEEL", "TAS" FOR "TESTING APPLICATION STANDARD", "TYP." FOR "TYPICAL", "U.N.O." FOR "UNLESS NOTED OTHERWISE", "W/" FOR "WITH", "#" FOR "NUMBER", "&" FOR "AND", and "Ø" FOR "DIAMETER".

VISIT [ECALC.IO/GLOSSARY](https://ecalculator.com/glossary) OR CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.

RICHARD NEET, P.E.
PE# 86488 CA# 9885

FEBRUARY 26, 2025



Digitally signed
by Richard Neet
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FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA)

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02/27/2025

GENERAL NOTES:

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023).
2. FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ) PER TAS 201, 202, AND 203 TESTING STANDARDS. ALSO IN ACCORDANCE WITH TEST STANDARDS ASTM E1886, E1996, & E330. THE SYSTEM IS DESIGNED AS LARGE MISSILE IMPACT RESISTANT (MISSILE LEVEL D).
3. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY. DESIGN CRITERIA BEYOND AS STATED HEREIN MAY REQUIRE ADDITIONAL SITE-SPECIFIC SEALED ENGINEERING.
4. THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
5. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT. THIS DOCUMENT ALONE IS NOT INTENDED FOR PERMIT.
6. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
7. SYSTEM OPERABILITY IS OUTSIDE THE BOUNDS OF THIS CERTIFICATION. INTERIOR MECHANISMS AND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS EVALUATION.
8. ENGINEER SEAL AFFIXED HERE TO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
9. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
10. ALTERATIONS, ADDITIONS, AND OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

12. SCREEN MATERIAL (MESH TYPE) IS OMEGATEX FABRIC BY TWITCHTECH TECHNICAL PRODUCTS, LLC, PRODUCT # T18KKS, .027" DIAMETER VINYL COATED 1500 DENIER POLYESTER CORE YARNS IN WARP AND .030" DIAMETER VINYL COATED 2000 DENIER TWARON CORE YARNS IN FILL.
13. THIS DOCUMENT CONTAINS INFORMATION RELEVANT TO THE NECESSARY STRUCTURAL REQUIREMENTS OF THE SYSTEM INSTALLATION. COMPONENTS AND FASTENERS NOT REFERENCED WHICH ARE PART OF THE INTERNAL FABRICATION OF THE SPECIFIED SYSTEMS OR ASSEMBLIES SHALL BE PER MANUFACTURER PUBLISHED SPECIFICATIONS.
14. ROLL-UP AND HOOD MECHANISM ARE NOT PART OF THIS APPROVAL AND ARE OUTSIDE THE BOUNDS OF THIS CERTIFICATION.
15. SCREENS SHALL COVER ENTIRE OPENING ON ALL SIDES.
16. THE FOLLOWING TERMINOLOGY MAY APPEAR HEREIN:
 - 16.1. "FACE MOUNT" MAY ALSO BE REFERRED TO AS "WALL MOUNT" OR "DIRECT MOUNT";
 - 16.2. "TRAP MOUNT" MAY ALSO BE REFERRED TO AS "TRAPPED MOUNT", "INTERIOR MOUNT", "INSIDE MOUNT", OR "INSET MOUNT";
 - 16.3. "SYSTEM WIDTH" MAY ALSO BE REFERRED TO AS "SPAN", "SPAN WIDTH", OR "SCREEN SPAN".

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SA TRACK HURRICANE SCREEN

ADA BUILDING CODE EIGHTH EDITION (2023)

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1. COMPONENTS AS NOTED IN DETAIL 1/01 ARE PER THE FOLLOWING SCHEDULE:

Technical drawing of a mechanical part with the following dimensions:

- Overall width: 3.25
- Distance from left edge to center of the vertical feature: 1.80
- Overall height: 1.50
- Distance from the vertical feature to the start of the horizontal feature: 0.68
- Distance from the start of the horizontal feature to the end: 1.00
- Horizontal feature thickness: 0.125
- Horizontal feature width: 0.3125"

Technical drawing of a Tee fitting. The drawing shows a side view of the Tee with dimensions. The main body has a length of 12.00 inches. The side branch has a length of 12.75 inches. The drawing is labeled "ENGINEERING EXPRESS".

Kedar Guide
Length

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3	1	1	1	
4	1	1	1	

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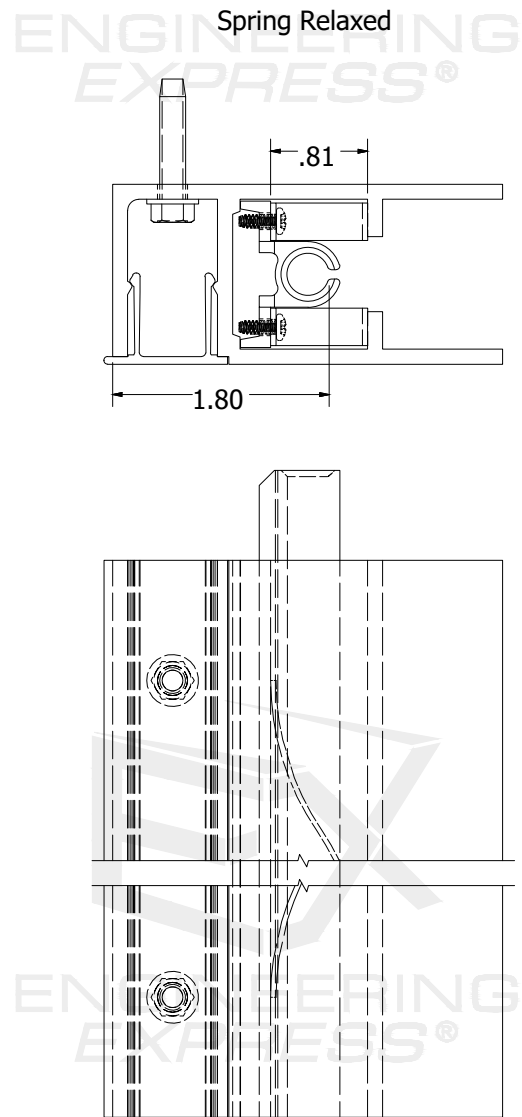
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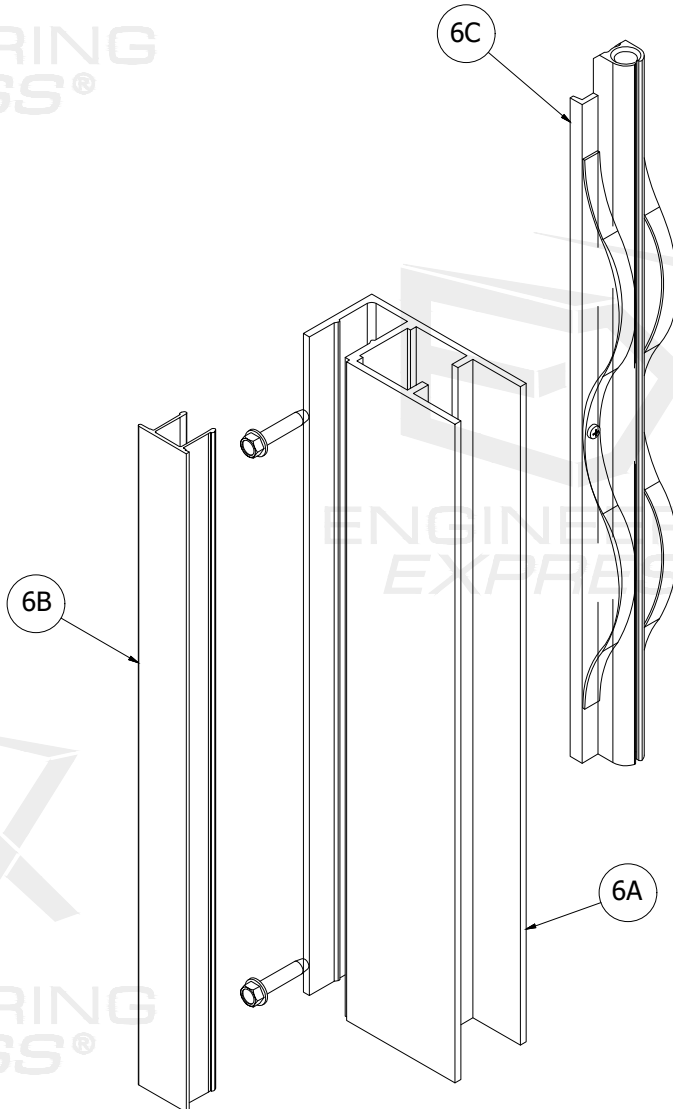
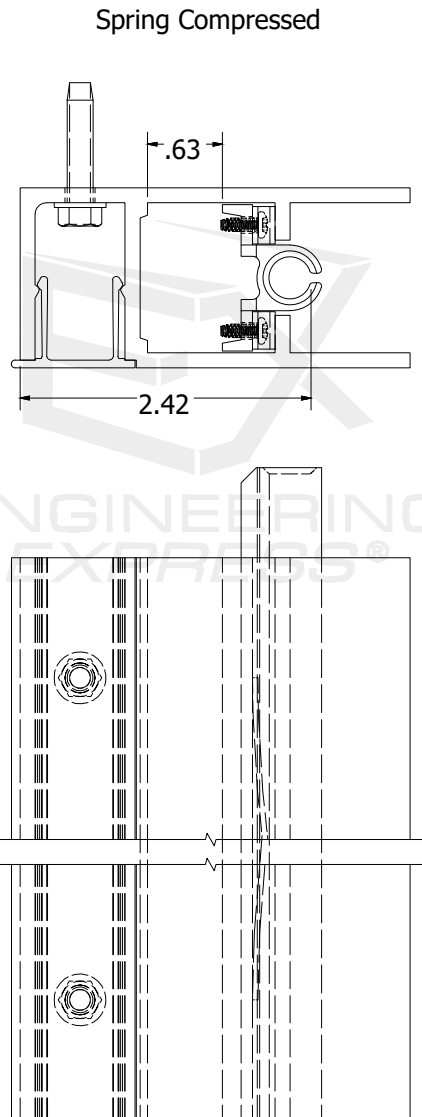
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6 SPRING TRACK ASSEMBLY
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6 SPRING TRACK ASSEMBLY
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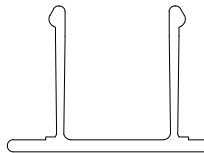
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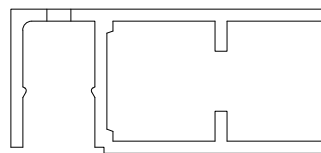
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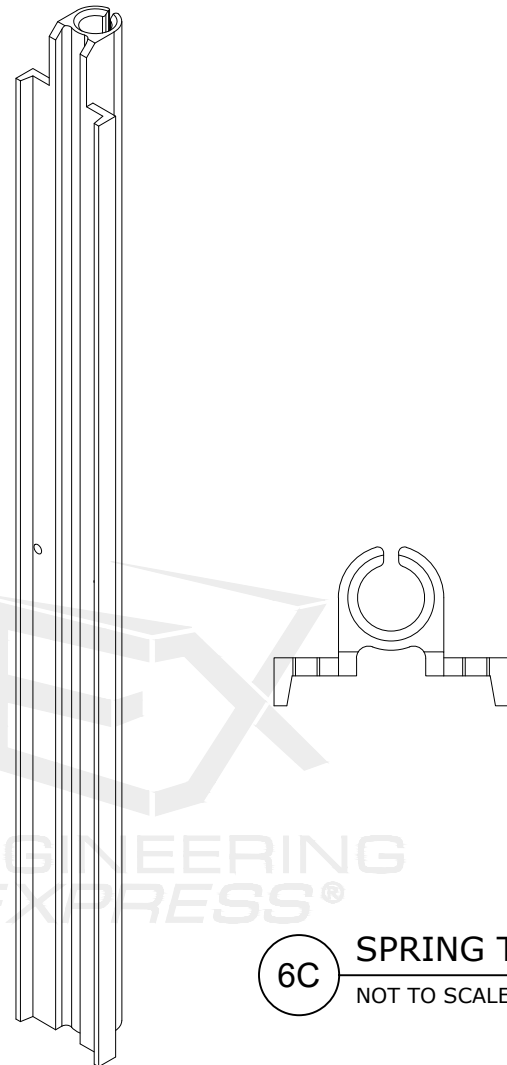


6A SPRING TRACK COVER

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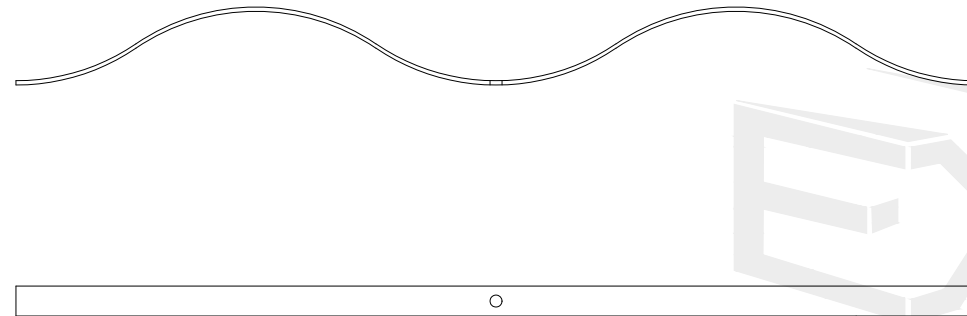


6B SPRING TRACK HOUSING
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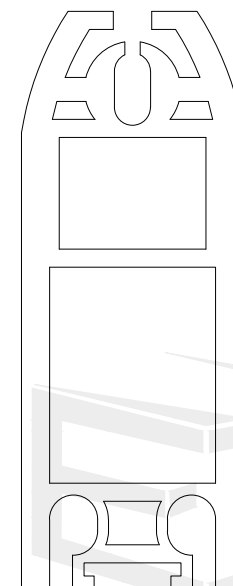
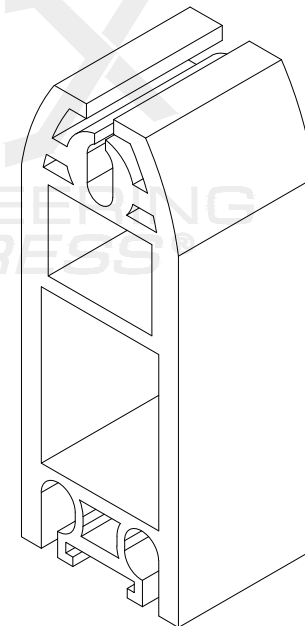


6C SPRING TRACK

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SPRING TRACK SPRING



8 BOTTOM BAR HD
NOT TO SCALE CROSS-SECTION



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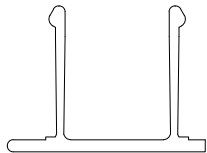
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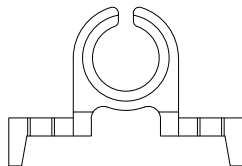
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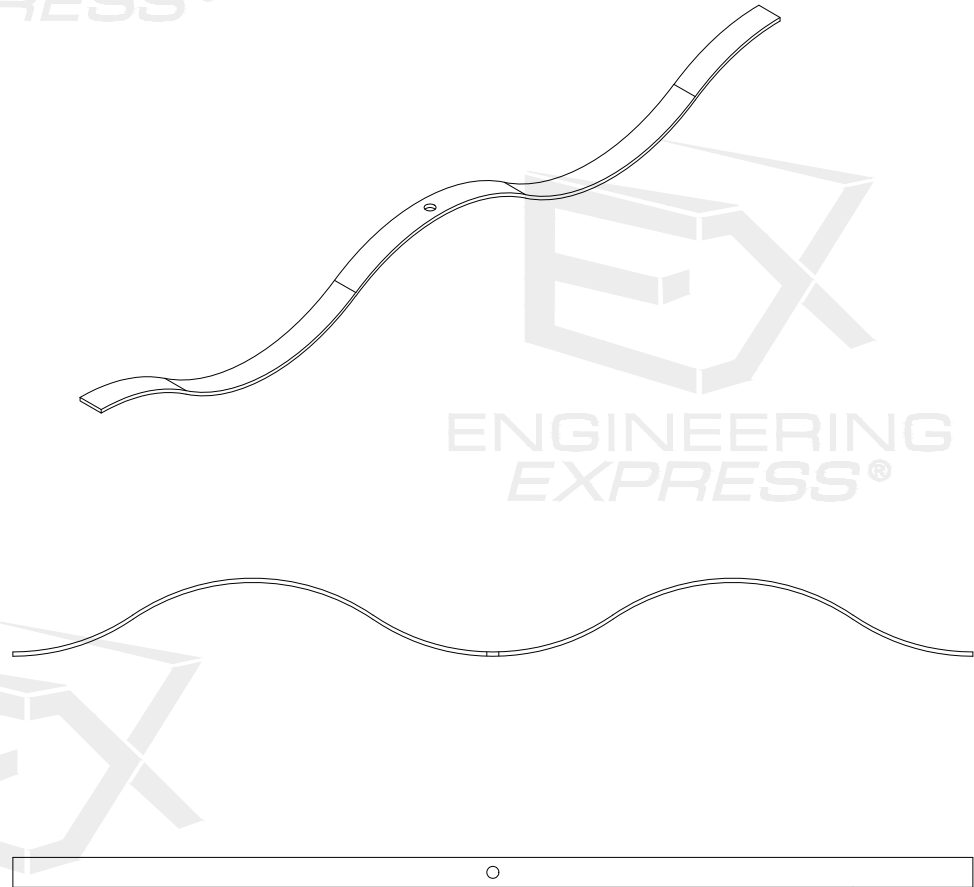


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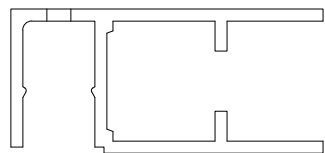
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SPRING TRACK KEEPER GUIDE



SPRING TRACK SPRING



6B SPRING TRACK HOUSING

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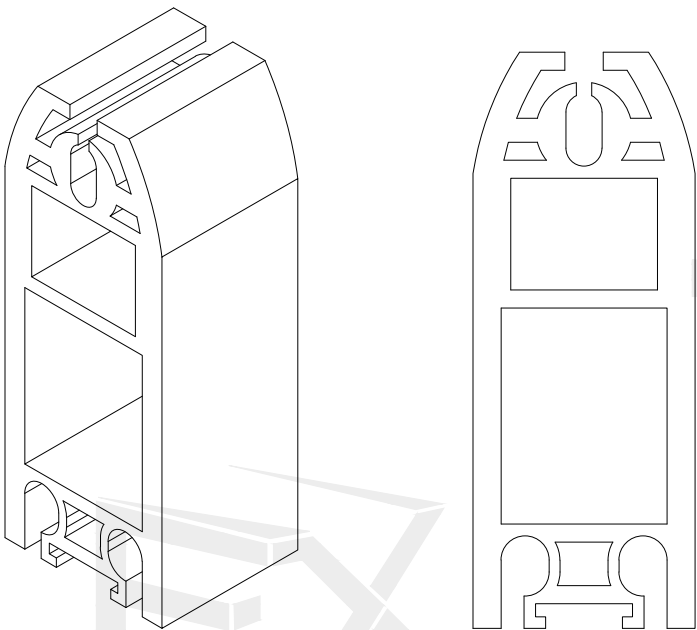
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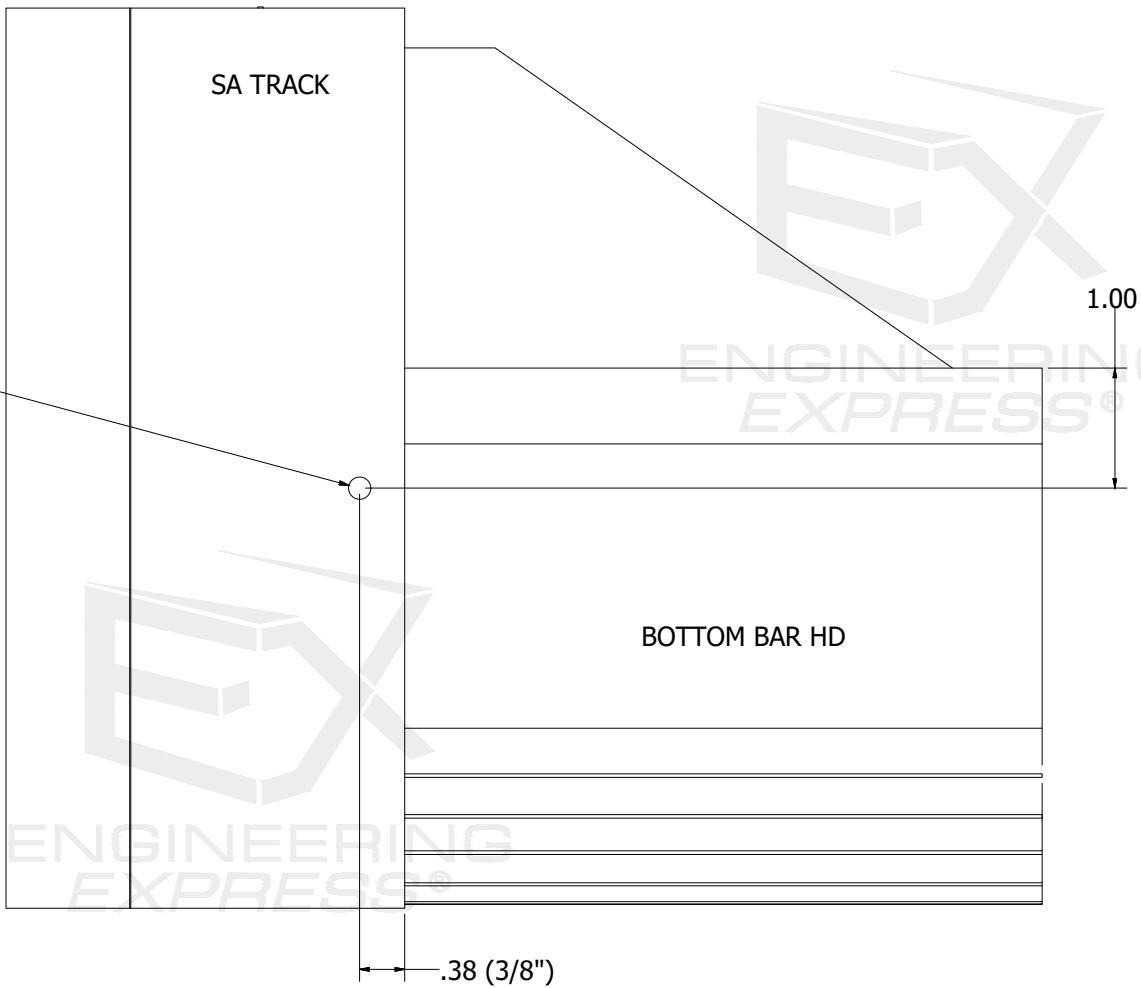
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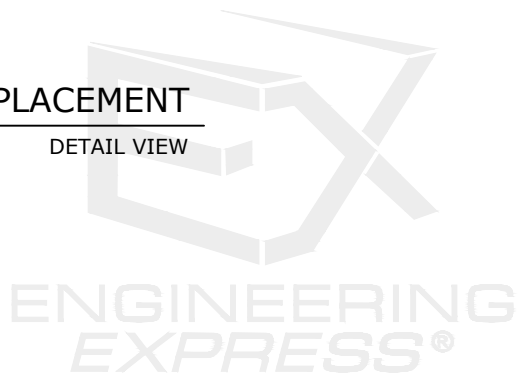
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8 BOTTOM BAR PIN PLACEMENT
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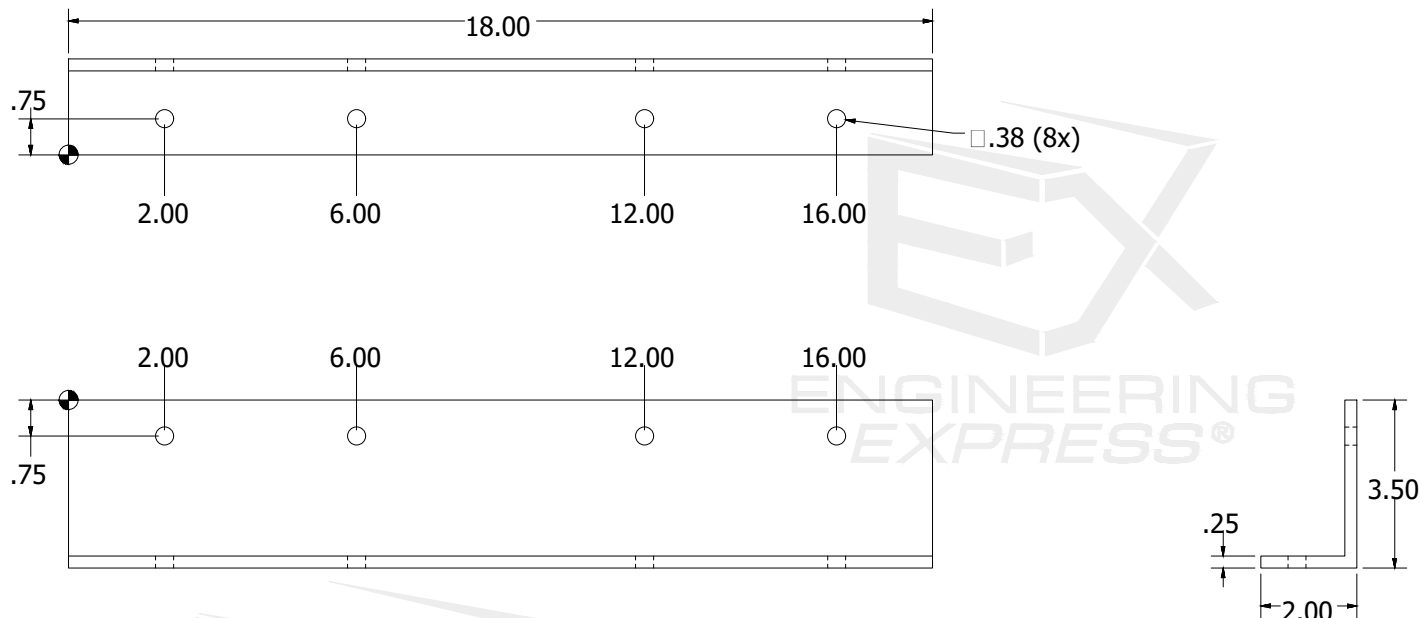
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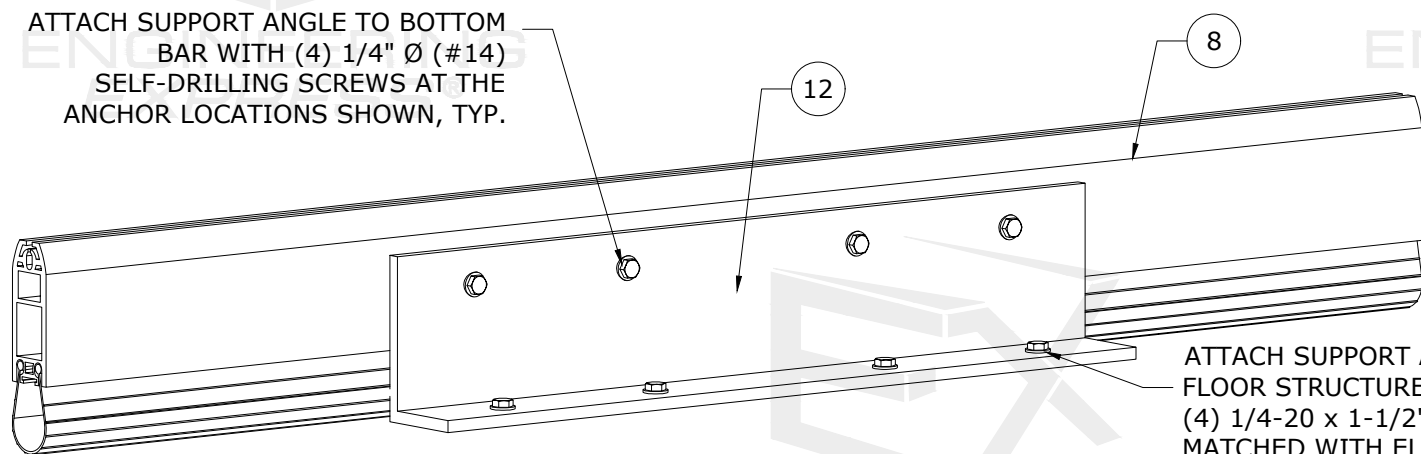
***BOTTOM BAR SUPPORT ANGLE NOTES:**

- SUPPORT ANGLES SHALL BE 6063-T6 OR BETTER (i.e. 6061-T6 OR 6005-T5) ALUMINUM ANGLES WITH DIMENSIONS AS SHOWN: 18" LONG x 2" x 3-1/2" LEGS x 1/4" THICK, TYP.
- SEE ANCHOR SCHEDULES FOR QUANTITY OF BOTTOM BAR SUPPORT ANGLES REQUIRED, TYP.
- POSITION SUPPORT ANGLES EQUALLY SPACED ($\pm 12"$) ALONG THE BOTTOM WEIGHT BAR. POSITION TALLER LEG OF SUPPORT ANGLE AGAINST WEIGHT BAR AND SHORT LEG OF SUPPORT ANGLE AGAINST THE HOST FLOOR STRUCTURE BY OTHERS. SUPPORT ANGLE SHALL BE FLUSH AGAINST WEIGHT BAR AND HOST STRUCTURE BY OTHERS, TYP.
- SEE DETAIL 1/08 FOR SUPPORT ANGLE ATTACHMENT DIRECTIVES, TYP.



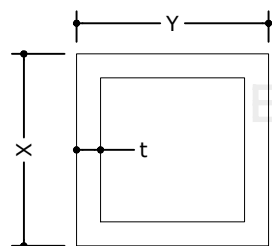
12 BOTTOM BAR SUPPORT ANGLE*
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ATTACH SUPPORT ANGLE TO BOTTOM BAR WITH (4) 1/4" Ø (#14) SELF-DRILLING SCREWS AT THE ANCHOR LOCATIONS SHOWN, TYP.



1 BOTTOM BAR SUPPORT ANGLE
08 POSITIONED ON BOTTOM BAR
NOT TO SCALE ISOMETRIC VIEW

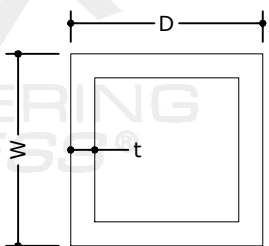
ATTACH SUPPORT ANGLE TO HOST FLOOR STRUCTURE BY OTHERS WITH (4) 1/4-20 x 1-1/2" SIDEWALK BOLTS MATCHED WITH ELCO 2-1/8" ANCHOR ENX-305 INSERTS AT THE ANCHOR LOCATIONS SHOWN, TYP.



13 BUILD-OUT / TRAP MOUNT TUBE, TYP.
NOT TO SCALE 6063-T6 ALUM.

BO/TRAP TUBE (COMPONENT # 13) PERMITTED TO BE:		
X	Y	t
1"	5"	1/4"
2"	2"	1/4"
2"	3"	1/4"
2"	4"	1/4"
2"	5"	1/4"
3"	3"	1/4"
3"	4"	1/4"
4"	4"	1/4"

SEE BUILD-OUT & TRAP MOUNT SCHEDULES & DETAILS HEREIN FOR LIMITATIONS AND SPECIFICATIONS



14 MULLION TUBE, TYP.
NOT TO SCALE 6063-T6 ALUM.

MULLION TUBE (COMPONENT # 14) PER MULLION SCHEDULES:		
W	D	t
3"	3"	1/4"
4"	4"	3/16"
4"	4"	1/4"
4"	6"	1/4"

SEE MULLION SCHEDULES & DETAILS HEREIN FOR LIMITATIONS AND SPECIFICATIONS



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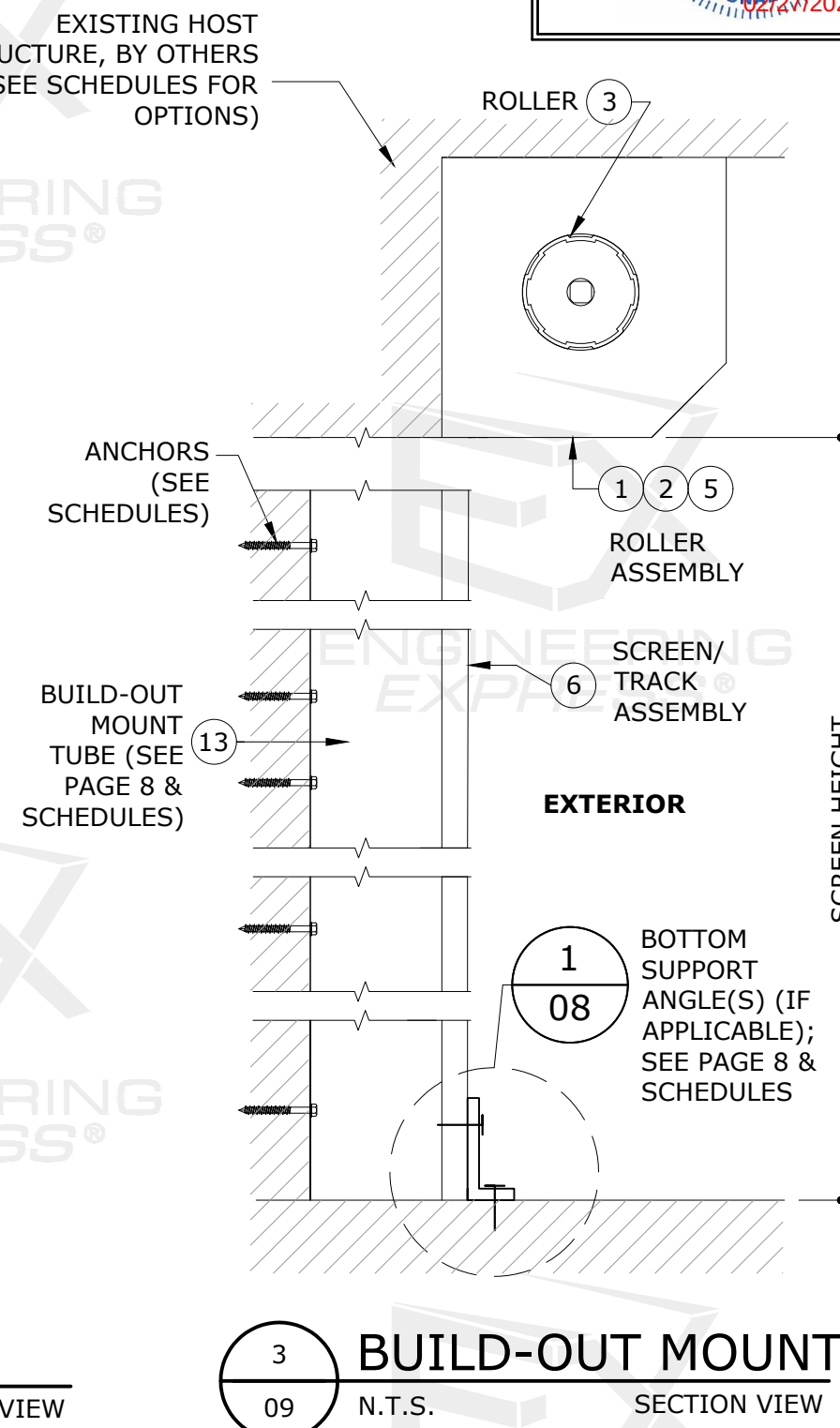
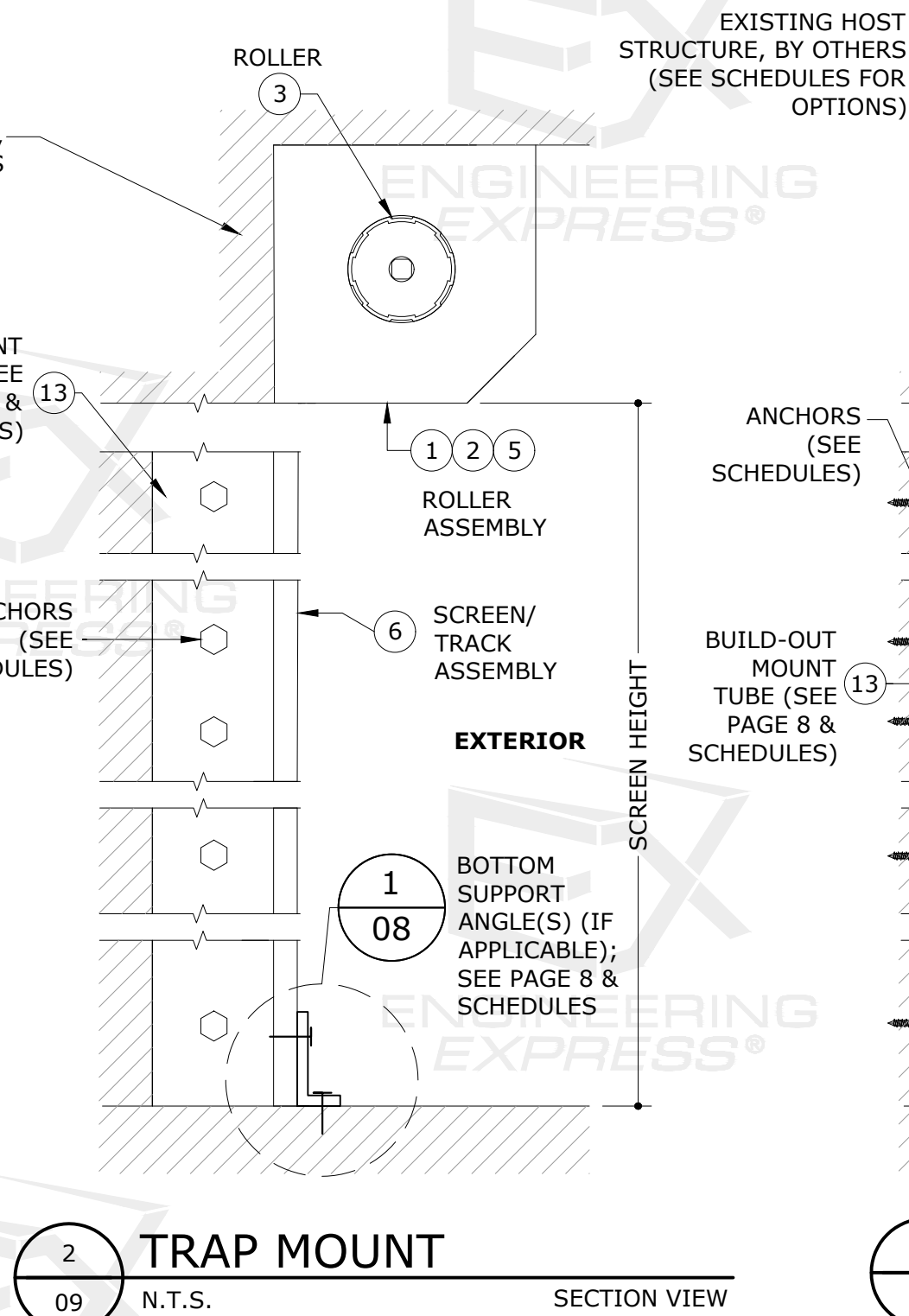
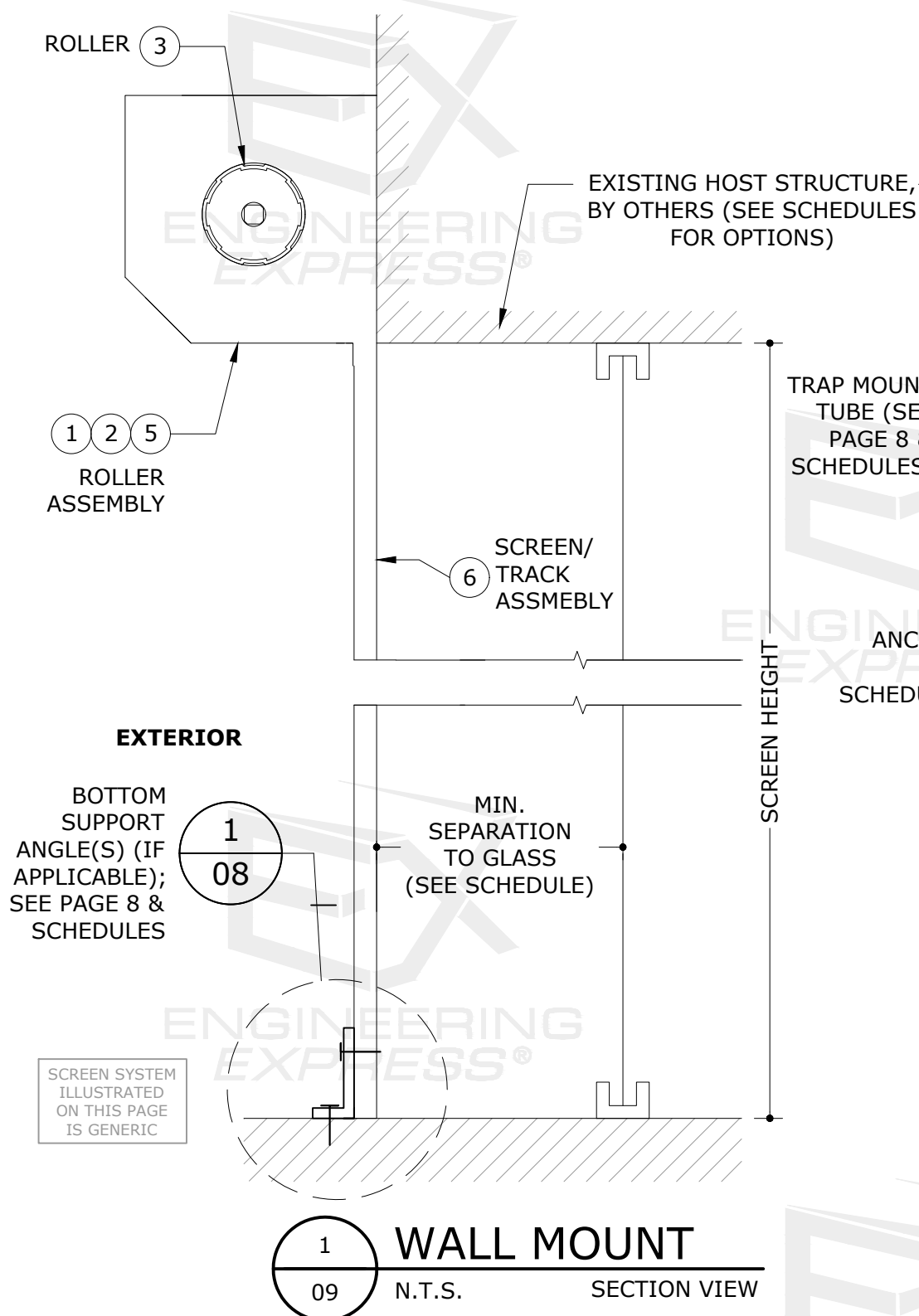
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NOTES:

1. ROLLER ASSEMBLY HOUSING IS CONSIDERED TO BE NON-STRUCTURAL IN REGARD TO THIS WIND CERTIFICATION AND HAS NOT BEEN TESTED FOR STATIC/IMPACT/CYCLIC LOADS. HOUSING INTEGRITY IS OUTSIDE THE BOUNDS OF THIS CERTIFICATION.
2. NON-STRUCTURAL COMPONENTS, SUCH AS, HOUSING ATTACHMENT AND ANY OTHER, SHALL BE PER MANUFACTURER INSTRUCTIONS.

3. EXTRUSIONS SHOWN HEREIN ARE GENERIC AND DO NOT REPRESENT THE ACTUAL SYSTEM.
4. THIS PAGE IS INTENDED ONLY TO ILLUSTRATE THE VARIOUS MOUNTING OPTIONS AND DOES NOT SHOW ALL ATTACHMENT SPECIFICATIONS; SEE HEREIN FOR ATTACHMENT SPECIFICATIONS AND OTHER REQUIREMENTS.

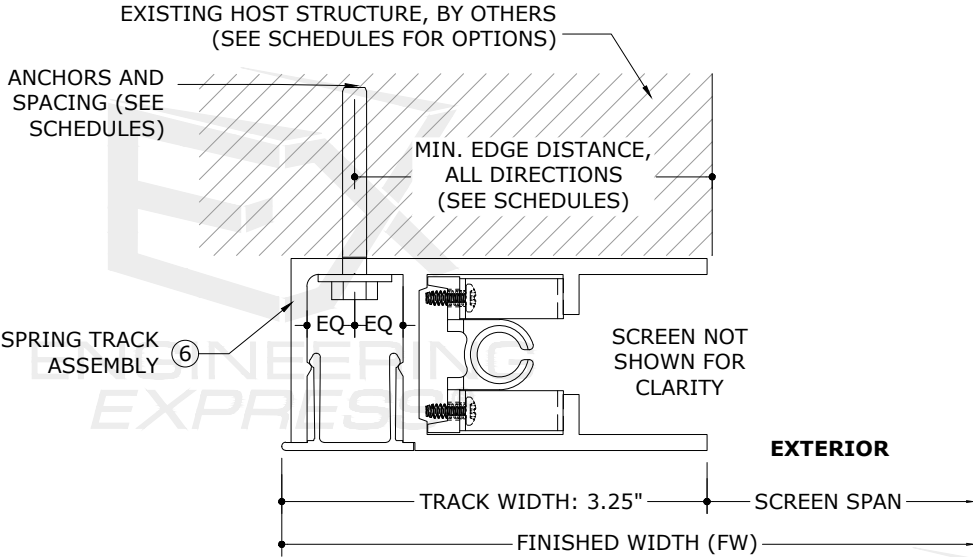
SCREEN ATTACHMENT TO HOST & BUILD-OUT / TRAP MOUNT TUBES (IF APPLICABLE)

RICHARD NEET, P.E.
PE# 86488 CA# 9885



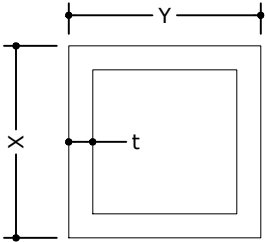
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1 WALL MOUNT
10 N.T.S. SECTION VIEW

PAGE 8 TABLE REPRODUCED FOR REFERENCE:

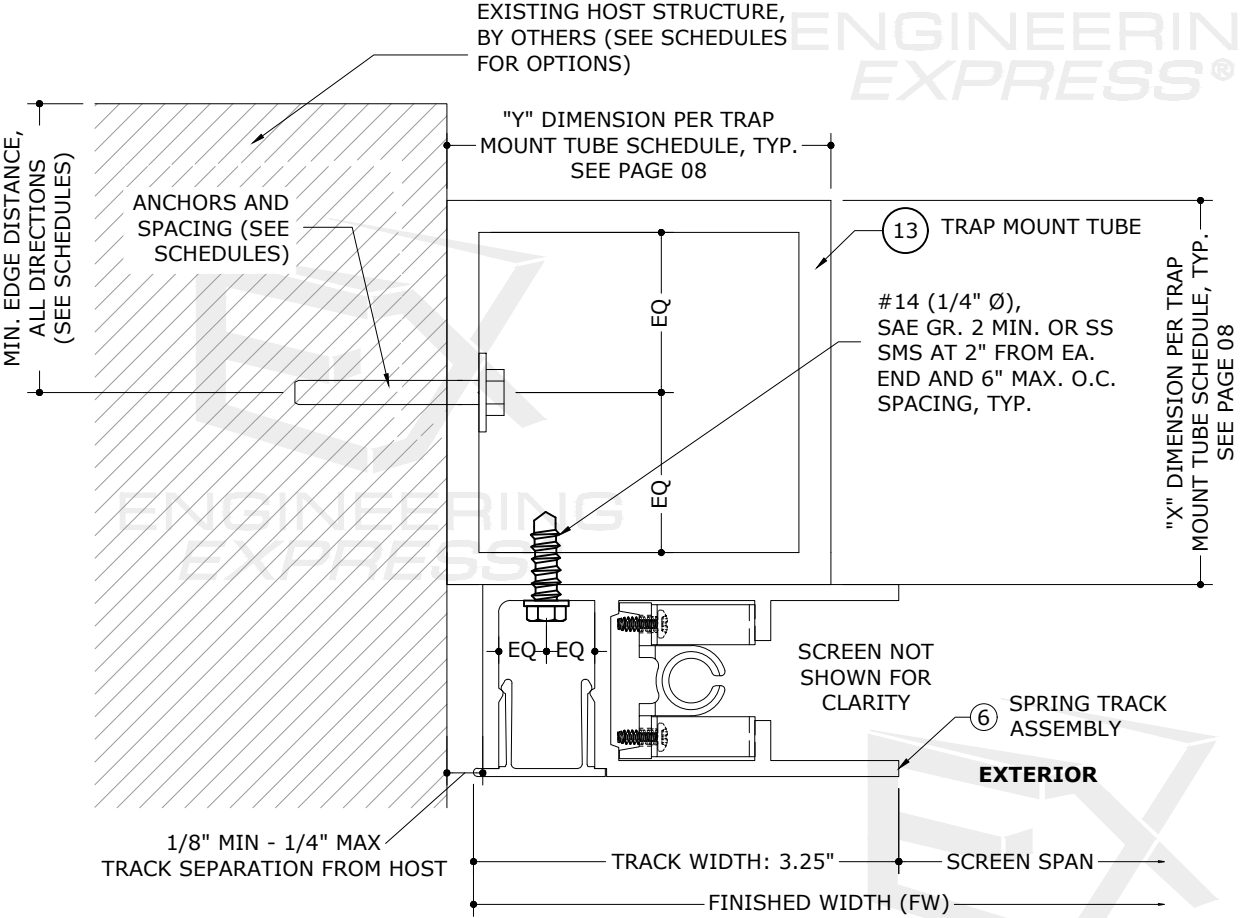


13 BUILD-OUT / TRAP MOUNT TUBE, TYP.
NOT TO SCALE 6063-T6 ALUM.

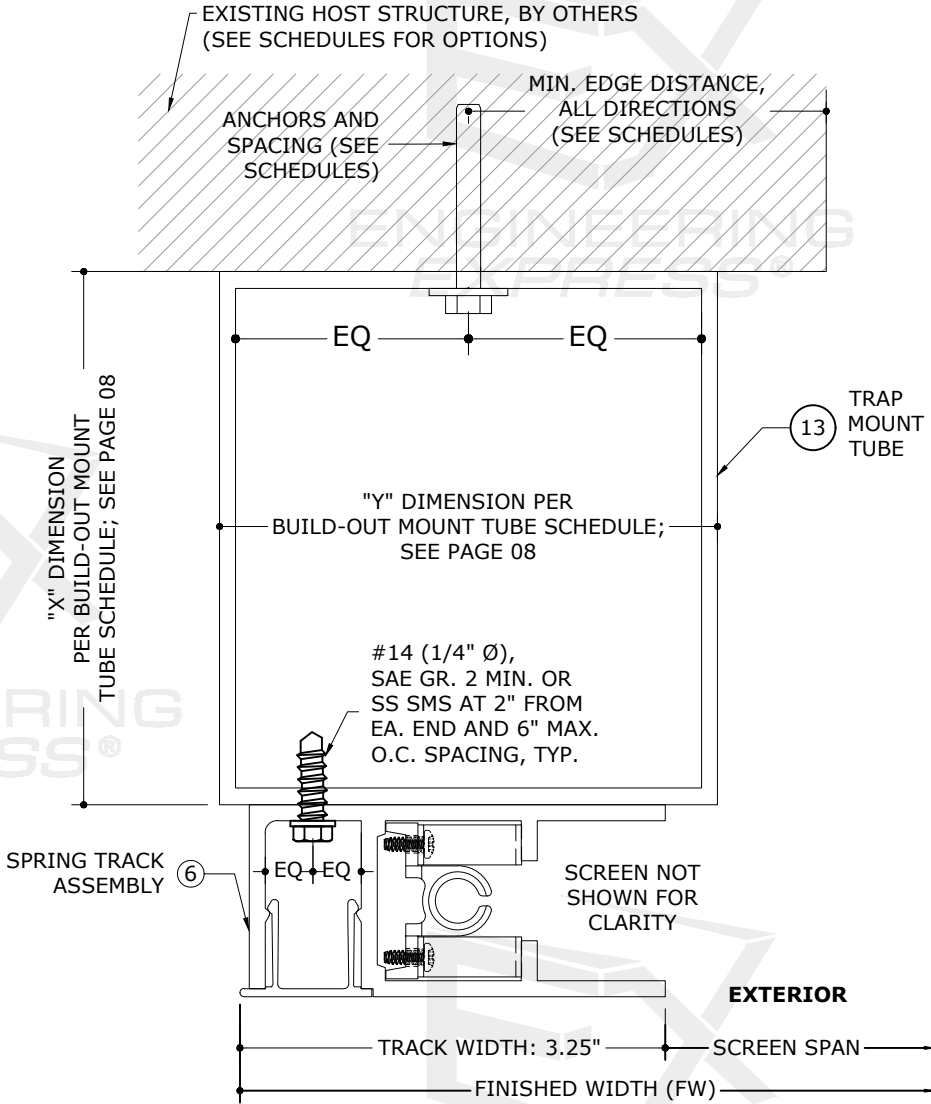
BO/TRAP TUBE (COMPONENT # 13) PERMITTED TO BE:		
X	Y	t
1"	5"	1/4"
2"	2"	1/4"
2"	3"	1/4"
2"	4"	1/4"
2"	5"	1/4"
3"	3"	1/4"
3"	4"	1/4"
4"	4"	1/4"

SEE BUILD-OUT & TRAP MOUNT SCHEDULES & DETAILS HEREIN FOR LIMITATIONS AND SPECIFICATIONS

NOTE: FOR NON-SQUARE TRAP AND BUILD-OUT MOUNT TUBES, THE LONGER "Y" DIMENSION SHALL BE ORIENTED PARALLEL TO THE SCREEN DIRECTION, AND THE SHORTER "X" DIMENSION SHALL BE ORIENTED PERPENDICULAR TO THE SCREEN DIRECTION.



2 TRAP MOUNT
10 N.T.S. SECTION VIEW



3 BUILD-OUT MOUNT
10 N.T.S. SECTION VIEW

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FLORIDA STATEWIDE APPROVAL (FSA)

REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (22-55191) EPR	RWN		10/12/23
REV. FOR NEW TESTING EPR	RWN		02/14/25

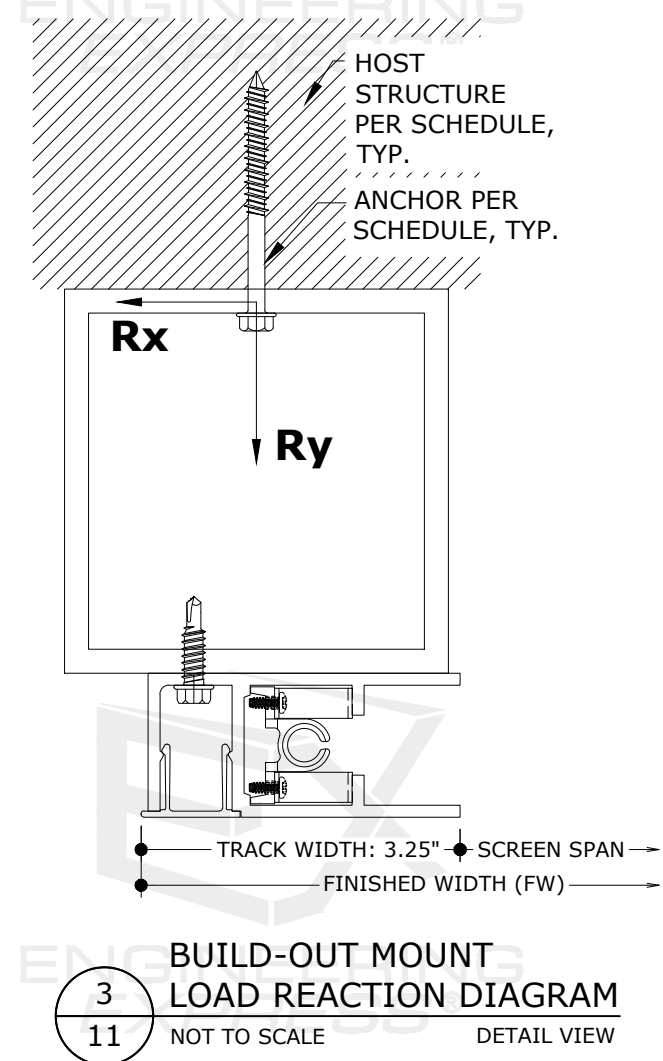
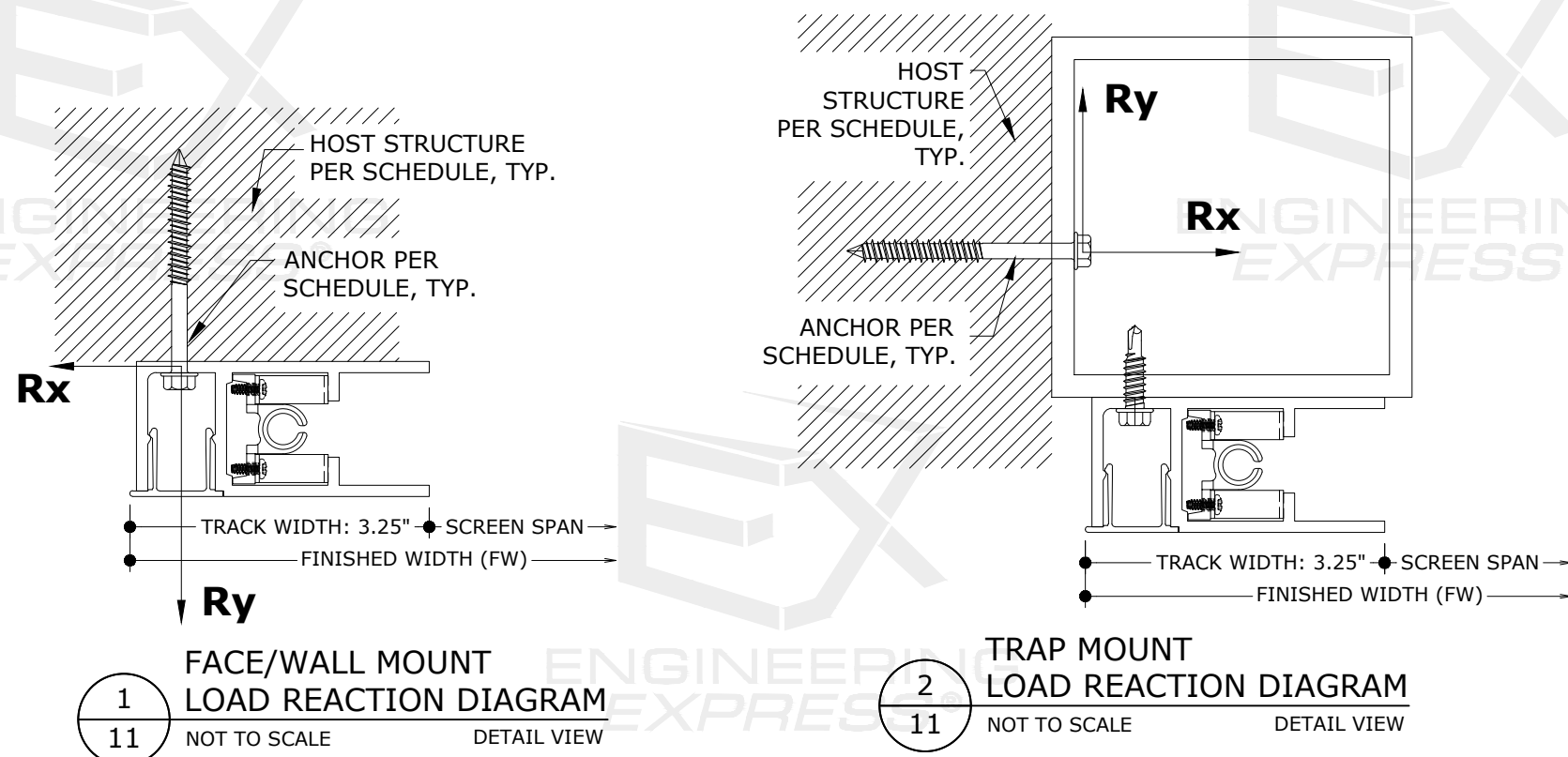
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APPLICABLE FOR ALL MOUNTS (WALL/FACE MOUNT, TRAP MOUNT, AND BUILD-OUT MOUNT)

- CONTACT ENGINEERING EXPRESS TO ADD ADDITIONAL ANCHORING OPTIONS TO THIS REPORT, OR TO CERTIFY AN ANCHOR OPTION FOR SPECIAL SITE-SPECIFIC CONDITIONS NEEDED FOR A PARTICULAR SITE INSTALLATION.



FEBRUARY 26, 2025



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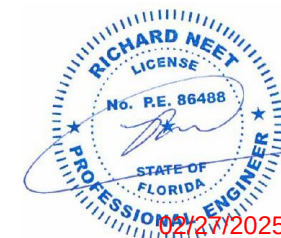
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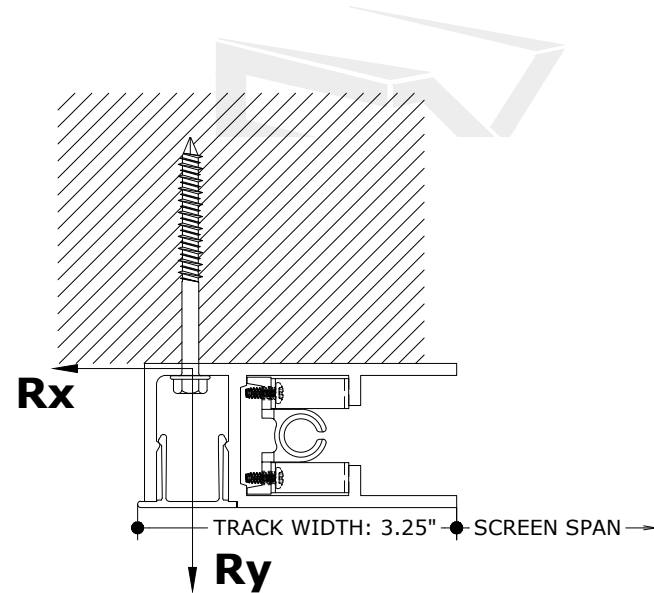
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CONCRETE			GROUT-FILLED BLOCK		HOLLOW BLOCK	WOOD		STEEL OR ALUMINUM	CONCRETE	GROUT-FILLED BLOCK
5/16" Ø DEWALT ULTRACON TO 3000 PSI MIN. CONCRETE; 1.75" MIN. EMBEDMENT; 1.25" MIN. EDGE DISTANCE	5/16" Ø DEWALT ULTRACON TO 3000 PSI MIN. CONCRETE; 2" MIN. EMBEDMENT; 3.125" MIN. EDGE DISTANCE	5/16" Ø ITW TAPCON XL TO 3000 PSI MIN. CONCRETE; 2.25" MIN. EMBEDMENT; 3.125" MIN. EDGE DISTANCE	5/16" Ø ITW TAPCON XL TO GROUT-FILLED CONCRETE BLOCK; 2.25" MIN. EMBEDMENT; 4" MIN. EDGE DISTANCE	5/16" Ø DEWALT ULTRACON TO GROUT-FILLED CONCRETE BLOCK; 2.25" MIN. EMBEDMENT; 2.5" MIN. EDGE DISTANCE	5/16" Ø DEWALT ULTRACON TO HOLLOW CMU; 1.25" EMBEDMENT; 1-1/16" MIN. EDGE DISTANCE	5/16" Ø LAG SCREW TO G=0.55 MIN. WOOD; 2" MIN. EMBEDMENT; 0.75" MIN. EDGE DISTANCE	5/16" Ø DEWALT ULTRACON TO G=0.55 MIN. WOOD (PERP. TO WOOD GRAIN); 1.5" MIN. EMBEDMENT; 1-9/16" MIN. EDGE DISTANCE	5/16" Ø 410 SS SMS W/ FULL THREAD PENETRATION OR 5/16-18 410 SS THRU-BOLT TO 3/16" MIN. A36 STEEL OR 6063-T6 ALUM; 0.625" MIN. EDGE DISTANCE	3/8" Ø DEWALT SCREW BOLT+ TO 3000 PSI MIN. CONCRETE; 3.5" MIN. EMBEDMENT; 5" MIN. EDGE DISTANCE	3/8" Ø DEWALT SCREW BOLT+ TO GROUT-FILLED CONCRETE BLOCK; 3.25" EMBEDMENT; 3.5" MIN. EDGE DISTANCE & 6" MIN. END DISTANCE TO END OF WALL
8.0"	8.0"	8.0"	8.0"	8.0"	3.9"	8.0"	8.0"	8.0"	8.0"	8.0"
7.5"	8.0"	8.0"	8.0"	7.2"	2.9"	7.0"	8.0"	8.0"	8.0"	8.0"
4.8"	8.0"	8.0"	8.0"	4.9"	1.9"	4.3"	5.8"	8.0"	8.0"	8.0"
3.6"	6.5"	8.0"	8.0"	3.7"	1.5"	3.2"	4.3"	8.0"	8.0"	6.2"
3.2"	5.8"	7.8"	7.8"	3.3"	1.3"	2.9"	3.9"	7.6"	8.0"	5.5"
6.9"	8.0"	8.0"	8.0"	7.1"	2.8"	6.2"	8.0"	8.0"	8.0"	8.0"
5.5"	8.0"	8.0"	8.0"	5.7"	2.2"	5.0"	6.7"	8.0"	8.0"	8.0"
6.3"	8.0"	8.0"	8.0"	6.5"	2.6"	5.6"	7.6"	8.0"	8.0"	8.0"
5.0"	8.0"	8.0"	8.0"	5.2"	2.0"	4.5"	6.1"	8.0"	8.0"	8.0"
5.6"	8.0"	8.0"	8.0"	5.7"	2.3"	5.0"	6.7"	8.0"	8.0"	8.0"
5.1"	8.0"	8.0"	8.0"	5.2"	2.1"	4.5"	6.1"	8.0"	8.0"	8.0"
5.0"	8.0"	8.0"	8.0"	5.2"	2.0"	4.5"	6.1"	8.0"	8.0"	8.0"
4.5"	8.0"	8.0"	8.0"	4.7"	1.9"	4.0"	5.5"	8.0"	8.0"	7.8"
4.5"	8.0"	8.0"	8.0"	4.7"	1.9"	4.0"	5.5"	8.0"	8.0"	7.8"
4.1"	7.6"	8.0"	8.0"	4.3"	1.7"	3.7"	5.0"	8.0"	8.0"	7.1"
4.1"	7.7"	8.0"	8.0"	4.3"	1.7"	3.7"	5.0"	8.0"	8.0"	7.2"
3.7"	6.9"	8.0"	8.0"	3.9"	1.5"	3.3"	4.5"	8.0"	8.0"	6.4"
3.5"	6.6"	8.0"	8.0"	3.7"	1.5"	3.2"	4.3"	8.0"	8.0"	6.1"

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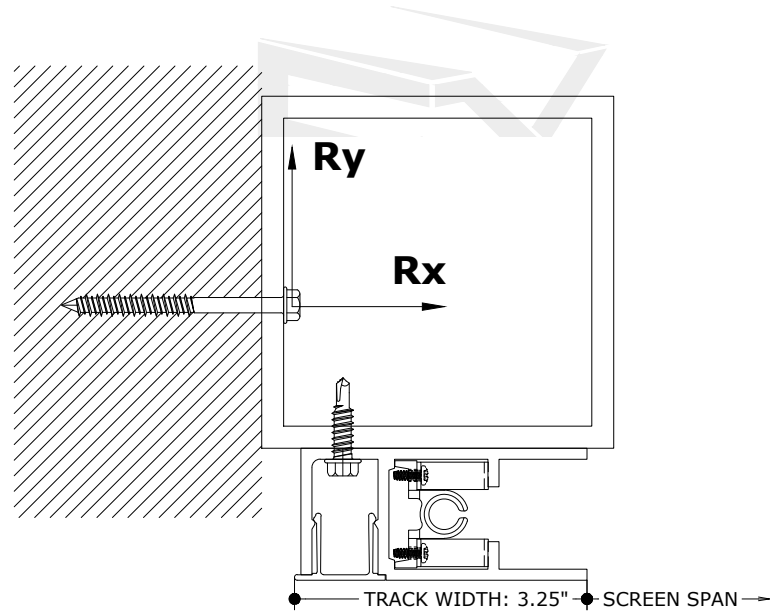
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MAX. SCREEN SPAN	# OF BOT. ANGLES	MAX. DESIGN PRESSURE	R _x	R _y	EDGE DISTANCE	EDGE DISTANCE	EDGE DISTANCE	4" MIN. EDGE DISTANCE	2.5" MIN. EDGE DISTANCE	DISTANCE	DISTANCE	1-9/16" MIN. EDGE DISTANCE	0.625" MIN. EDGE DISTANCE	5" MIN. EDGE DISTANCE	DISTANCE & 6" MIN. END DISTANCE TO END OF WALL
192"	(0)	+/- 20.0 PSF	322 LB/FT	160 LB/FT	8.0"	8.0"	8.0"	8.0"	7.8"	3.3"	8.0"	8.0"	8.0"	8.0"	8.0"
		+/- 27.0 PSF	434 LB/FT	216 LB/FT	7.4"	8.0"	8.0"	8.0"	5.8"	2.5"	8.0"	8.0"	8.0"	8.0"	8.0"
192"	(2)	+/- 30.0 PSF	755 LB/FT	240 LB/FT	5.1"	6.0"	8.0"	8.0"	3.7"	1.6"	6.0"	5.5"	8.0"	8.0"	7.3"
		+/- 40.0 PSF	1006 LB/FT	320 LB/FT	3.8"	4.5"	8.0"	8.0"	2.8"	1.2"	4.5"	4.1"	7.2"	8.0"	5.5"
		+/- 45.0 PSF	1132 LB/FT	360 LB/FT	3.4"	4.0"	7.2"	7.2"	2.5"	1.1"	4.0"	3.7"	6.4"	7.2"	4.9"
204"	(1)	+/- 20.0 PSF	520 LB/FT	170 LB/FT	7.3"	8.0"	8.0"	8.0"	5.3"	2.3"	8.0"	7.9"	8.0"	8.0"	8.0"
		+/- 25.0 PSF	650 LB/FT	213 LB/FT	5.9"	6.9"	8.0"	8.0"	4.3"	1.8"	6.8"	6.3"	8.0"	8.0"	8.0"
216"	(2)	+/- 20.0 PSF	580 LB/FT	180 LB/FT	6.7"	7.9"	8.0"	8.0"	4.8"	2.1"	7.9"	7.2"	8.0"	8.0"	8.0"
		+/- 25.0 PSF	725 LB/FT	225 LB/FT	5.3"	6.3"	8.0"	8.0"	3.9"	1.7"	6.3"	5.8"	8.0"	8.0"	7.7"
240"	(3)	+/- 20.0 PSF	655 LB/FT	200 LB/FT	5.9"	7.0"	8.0"	8.0"	4.3"	1.9"	7.0"	6.4"	8.0"	8.0"	8.0"
		+/- 22.0 PSF	721 LB/FT	220 LB/FT	5.4"	6.3"	8.0"	8.0"	3.9"	1.7"	6.4"	5.8"	8.0"	8.0"	7.8"
264"	(3)	+/- 20.0 PSF	731 LB/FT	220 LB/FT	5.4"	6.3"	8.0"	8.0"	3.9"	1.7"	6.3"	5.8"	8.0"	8.0"	7.7"
		+/- 22.0 PSF	804 LB/FT	242 LB/FT	4.9"	5.7"	8.0"	8.0"	3.5"	1.5"	5.8"	5.2"	8.0"	8.0"	7.0"
288"	(3)	+/- 20.0 PSF	807 LB/FT	240 LB/FT	4.9"	5.7"	8.0"	8.0"	3.5"	1.5"	5.8"	5.2"	8.0"	8.0"	7.0"
		+/- 22.0 PSF	888 LB/FT	264 LB/FT	4.4"	5.2"	8.0"	8.0"	3.2"	1.4"	5.2"	4.8"	8.0"	8.0"	6.3"
312"	(4)	+/- 20.0 PSF	883 LB/FT	260 LB/FT	4.5"	5.2"	8.0"	8.0"	3.2"	1.4"	5.3"	4.8"	8.0"	8.0"	6.4"
336"	(4)	+/- 20.0 PSF	998 LB/FT	280 LB/FT	4.0"	4.6"	8.0"	8.0"	2.9"	1.2"	4.8"	4.3"	7.5"	8.0"	5.7"
360"	(4)	+/- 20.0 PSF	1036 LB/FT	300 LB/FT	3.8"	4.4"	8.0"	8.0"	2.7"	1.2"	4.5"	4.1"	7.2"	8.0"	5.5"

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FLORIDA STATEWIDE APPROVAL (FSA)

REV.	FOR NEW TESTING	EPR	RWN	02/14/25
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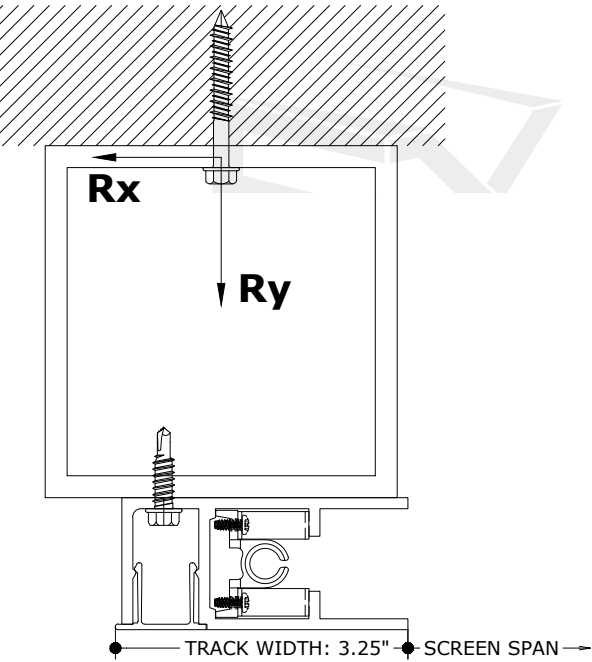
SEE ANCHOR SCHEDULE
NOTES ON PAGE 11

RICHARD NEET, P.E.
PE# 86488 CA# 9885

FEBRUARY 26, 2025



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CONCRETE			GROUT-FILLED BLOCK		HOLLOW BLOCK	WOOD		STEEL OR ALUMINUM	CONCRETE	GROUT-FILLED BLOCK
5/16" Ø DEWALT ULTRACON TO 3000 PSI MIN. CONCRETE; 1.75" MIN. EMBEDMENT; 1.25" MIN. EDGE DISTANCE	5/16" Ø DEWALT ULTRACON TO 3000 PSI MIN. CONCRETE; 2" MIN. EMBEDMENT; 3.125" MIN. EDGE DISTANCE	5/16" Ø ITW TAPCON XL TO 3000 PSI MIN. CONCRETE; 2.25" MIN. EMBEDMENT; 3.125" MIN. EDGE DISTANCE	5/16" Ø ITW TAPCON XL TO GROUT-FILLED CONCRETE BLOCK; 2.25" MIN. EMBEDMENT; 4" MIN. EDGE DISTANCE	5/16" Ø DEWALT ULTRACON TO GROUT-FILLED CONCRETE BLOCK; 2.25" MIN. EMBEDMENT; 2.5" MIN. EDGE DISTANCE	5/16" Ø DEWALT ULTRACON TO HOLLOW CMU; 1.25" EMBEDMENT; 1-1/16" MIN. EDGE DISTANCE	5/16" Ø LAG SCREW TO G=0.55 MIN. WOOD; 2" MIN. EMBEDMENT; 0.75" MIN. EDGE DISTANCE	5/16" Ø DEWALT ULTRACON TO G=0.55 MIN. WOOD (PERP. TO WOOD GRAIN); 1.5" MIN. EMBEDMENT; 1-9/16" MIN. EDGE DISTANCE	5/16" Ø 410 SS SMS W/ FULL THREAD PENETRATION OR 5/16-18 410 SS THRU-BOLT TO 3/16" MIN. A36 STEEL OR 6063-T6 ALUM; 0.625" MIN. EDGE DISTANCE	3/8" Ø DEWALT SCREW BOLT+ TO 3000 PSI MIN. CONCRETE; 3.5" MIN. EMBEDMENT; 5" MIN. EDGE DISTANCE	3/8" Ø DEWALT SCREW BOLT+ TO GROUT-FILLED CONCRETE BLOCK; 3.25" EMBEDMENT; 3.5" MIN. EDGE DISTANCE & 6" MIN. END DISTANCE TO END OF WALL
192"	(0)	+/- 20.0 PSF +/- 27.0 PSF	257 LB/FT 347 LB/FT	240 LB/FT 324 LB/FT	8.0" 6.6"	8.0" 8.0"	8.0" 8.0"	8.0" 8.0"	8.0" 8.0"	8.0" 8.0"
192"	(2)	+/- 30.0 PSF +/- 40.0 PSF +/- 45.0 PSF	604 LB/FT 805 LB/FT 905 LB/FT	360 LB/FT 480 LB/FT 540 LB/FT	4.4" 3.3" 2.9"	7.3" 5.5" 4.9"	8.0" 7.8" 6.9"	8.0" 8.0" 8.0"	8.0" 8.0" 7.1"	7.3" 5.4" 4.8"
204"	(1)	+/- 20.0 PSF +/- 25.0 PSF	416 LB/FT 520 LB/FT	255 LB/FT 319 LB/FT	6.3" 5.0"	8.0" 8.0"	8.0" 8.0"	8.0" 8.0"	8.0" 8.0"	8.0" 8.0"
216"	(2)	+/- 20.0 PSF +/- 25.0 PSF	464 LB/FT 580 LB/FT	270 LB/FT 338 LB/FT	5.7" 4.6"	8.0" 7.7"	8.0" 8.0"	8.0" 8.0"	8.0" 8.0"	8.0" 7.6"
240"	(3)	+/- 20.0 PSF +/- 22.0 PSF	524 LB/FT 577 LB/FT	300 LB/FT 330 LB/FT	5.1" 4.6"	8.0" 7.8"	8.0" 8.0"	8.0" 8.0"	8.0" 8.0"	8.0" 7.7"
264"	(3)	+/- 20.0 PSF +/- 22.0 PSF	585 LB/FT 643 LB/FT	330 LB/FT 363 LB/FT	4.6" 4.1"	7.7" 7.0"	8.0" 8.0"	8.0" 8.0"	8.0" 8.0"	7.6" 6.9"
288"	(3)	+/- 20.0 PSF +/- 22.0 PSF	646 LB/FT 710 LB/FT	360 LB/FT 396 LB/FT	4.1" 3.8"	7.1" 6.4"	8.0" 8.0"	8.0" 8.0"	8.0" 8.0"	6.9" 6.3"
312"	(4)	+/- 20.0 PSF	707 LB/FT	390 LB/FT	3.8"	6.5"	8.0"	8.0"	8.0"	6.4"
336"	(4)	+/- 20.0 PSF	798 LB/FT	420 LB/FT	3.4"	5.9"	8.0"	8.0"	8.0"	5.7"
360"	(4)	+/- 20.0 PSF	829 LB/FT	450 LB/FT	3.3"	5.6"	7.8"	7.8"	8.0"	5.5"

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FLORIDA STATEWIDE APPROVAL (FSA)

REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (22-55191)	EPR	RWN	10/12/23
REV. FOR NEW TESTING	EPR	RWN	02/14/25

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GLASS SEPARATION SCHEDULE:

MAX. SCREEN SPAN	MIN. GLAZING SEPARATION FROM GLASS														
	MAX. POSITIVE DESIGN PRESSURE														
	+ 20 psf	+ 22 psf	+ 25 psf	+ 27 psf	+ 35 psf	+ 38 psf	+ 45 psf	+ 50 psf	+ 66 psf	+ 70 psf	+ 87 psf	+ 90 psf	+ 108 psf	+ 129 psf	+ 150 psf
48 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in
60 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in
72 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in	11.00 in
84 in	16.00 in	16.00 in	16.00 in	16.00 in	16.00 in	16.00 in	16.50 in	16.50 in	21.50 in	22.75 in	32.75 in	34.50 in	44.75 in	57.00 in	
96 in	21.50 in	21.50 in	21.50 in	21.75 in	22.50 in	22.50 in	23.00 in	23.25 in	32.00 in	34.50 in	41.75 in	43.00 in	50.75 in	59.50 in	
108 in	22.25 in	22.50 in	22.50 in	22.50 in	22.75 in	23.00 in	23.50 in	24.00 in	32.00 in	34.50 in	41.75 in	43.00 in	50.75 in		
120 in	23.50 in	23.75 in	23.75 in	23.75 in	24.50 in	24.50 in	25.00 in	25.50 in	32.00 in	34.50 in	41.75 in	43.00 in	50.75 in		
132 in	24.75 in	25.00 in	25.00 in	25.00 in	26.25 in	26.25 in	27.25 in	27.75 in	32.00 in	34.50 in	41.75 in				
144 in	26.00 in	26.25 in	26.25 in	26.25 in	28.00 in	28.00 in	29.25 in	30.00 in	32.50 in	34.50 in	41.75 in				
156 in	27.25 in	27.50 in	27.50 in	27.50 in	29.75 in	29.75 in	31.25 in	32.25 in	35.50 in						
168 in	28.50 in	28.75 in	28.75 in	28.75 in	31.50 in	31.50 in	33.25 in	34.50 in	38.50 in						
180 in	29.75 in	30.00 in	30.00 in	30.00 in	33.25 in	33.25 in	35.50 in								
192 in	31.00 in	31.25 in	31.25 in	31.25 in	35.00 in	35.00 in	37.50 in								
204 in	31.25 in	32.25 in	33.25 in												
216 in	31.50 in	32.50 in	33.50 in												
228 in	31.75 in	32.75 in	33.75 in												
240 in	32.00 in	33.00 in													
252 in	32.00 in	33.00 in													
264 in	32.25 in	33.25 in													
276 in	32.50 in	33.50 in													
288 in	32.75 in	33.75 in													
300 in	33.00 in	34.00 in													
312 in	33.00 in														
324 in	33.75 in														
336 in	35.25 in														
348 in	36.50 in														
360 in	37.75 in														

GLASS SEPARATION NOTES:

1. GLASS SEPARATION IS DEFINED AS THE DISTANCE FROM THE INSIDE FACE OF THE FABRIC SCREEN TO THE OUTSIDE SURFACE OF EXISTING GLAZING.
2. SEPARATION FROM GLAZING IS REQUIRED FOR ALL INSTALLATIONS WITHIN THE HIGH VELOCITY HURRICANE ZONE, OR ANY OTHER LOCATION REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
3. SEPARATION IS NOT REQUIRED FROM ANY FENESTRATION PRODUCT THAT DOES NOT CONTAIN GLAZING.
4. LINEAR INTERPOLATION OF THIS TABLE IS PERMITTED FOR INTERMEDIATE SPANS, SO LONG AS DEFLECTION VALUES ARE PRESENT FOR THE LOWER AND UPPER BOUNDS OF THE INTERPOLATION. (I.E. CANNOT EXTRAPOLATE/EXCEED THE VALUES IN THE TABLE).

RICHARD NEET, P.E.
PE# 86488 CA# 9885

FEBRUARY 26, 2025



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FLORIDA STATEWIDE APPROVAL (FSA)

REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (22-55191)	EPR	RWN	10/12/23
REV. FOR NEW TESTING	EPR	RWN	02/14/25

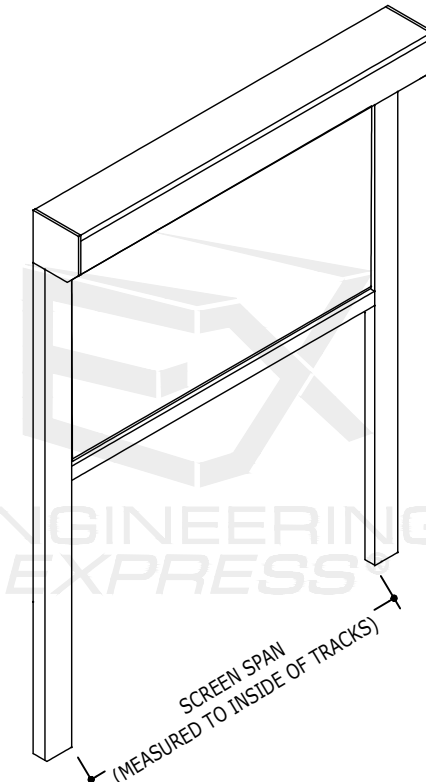
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OF
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SCREEN SYSTEM
(SIMPLIFIED DIAGRAM)

1
21

NOT TO SCALE ISOMETRIC VIEW

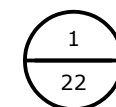
NOTE: SYSTEMS WITH SCREEN SPANS 96" AND UNDER ARE PERMITTED TO BE CONSTRUCTED WITHOUT THE BOTTOM HEM, AS DEMONSTRATED BY THE TESTING FORMING THE BASIS OF THIS APPROVAL.



1. VALUES SHOWN IN MULLION SCHEDULES ARE MAXIMUM ALLOWABLE MULLION LENGTHS AT EACH RESPECTIVE SCREEN SPAN AND DESIGN PRESSURE.
2. "INTERMEDIATE MULLIONS" AND "END MULLIONS" ARE AS DEFINED IN THE DETAIL ON THIS PAGE. (NOTE: "INTERMEDIATE MULLIONS" MAY ALSO BE REFERRED TO AS "INTERIOR MULLIONS" OR "INT" MULLIONS HEREIN).
3. ALL MULLIONS SHALL BE 6061-T6 ALUMINUM OR EQUIVALENT.
4. MAXIMUM ALLOWABLE DESIGN PRESSURES AND SCREENS SPANS INDICATED ARE FOR DETERMINING PERMISSIBLE MULLION LENGTHS ONLY. ACTUAL SCREEN SPANS AND DESIGN PRESSURES SHALL NOT EXCEED THOSE INDICATED IN THE SCREEN SPAN SCHEDULES.
5. "END REACTIONS" ARE LISTED FOR EACH COMBINATION OF MAX. SCREEN SPAN, MAX. DESIGN PRESSURE, AND MULLION TYPE (END OR INTERIOR). CHOOSE MOUNTING CONNECTIONS (PER APPLICABLE CONNECTION DETAILS HEREIN) THAT PROVIDES "CONNECTION CAPACITY" GREATER THAN OR EQUAL TO THE "END REACTIONS" SPECIFIED.
6. "INTERMEDIATE MULLIONS" SHALL HAVE EQUAL SCREEN SPANS (+/- 12") ON ADJACENT SIDES OF THE MULLION. OTHERWISE, USE "END MULLION" TABLES.

MULLION
SCHEDULE:
INTERMEDIATE
MULLIONS

SEE MILLION ATTACHMENTS AND MILLION
SCHEDULES ON THE FOLLOWING PAGES.



EXTERIOR ELEV

30



**SEE TRAP MOUNT &
MULLION SCHEDULES
& DETAILS HEREIN
FOR LIMITATIONS AND
SPECIFICATIONS**



MULLION TUBE (COMPONENT # 14) PER MULLION SCHEDULES:		
W	D	t
3"	3"	1/4"
4"	4"	3/16"
4"	4"	1/4"
4"	6"	1/4"

NOTE: FOR NON-SQUARE TRAP MOUNT TUBES, THE LONGER "Y" DIMENSION SHALL BE ORIENTED PARALLEL TO THE SCREEN DIRECTION, AND THE SHORTER "X" DIMENSION SHALL BE ORIENTED PERPENDICULAR TO THE SCREEN DIRECTION.



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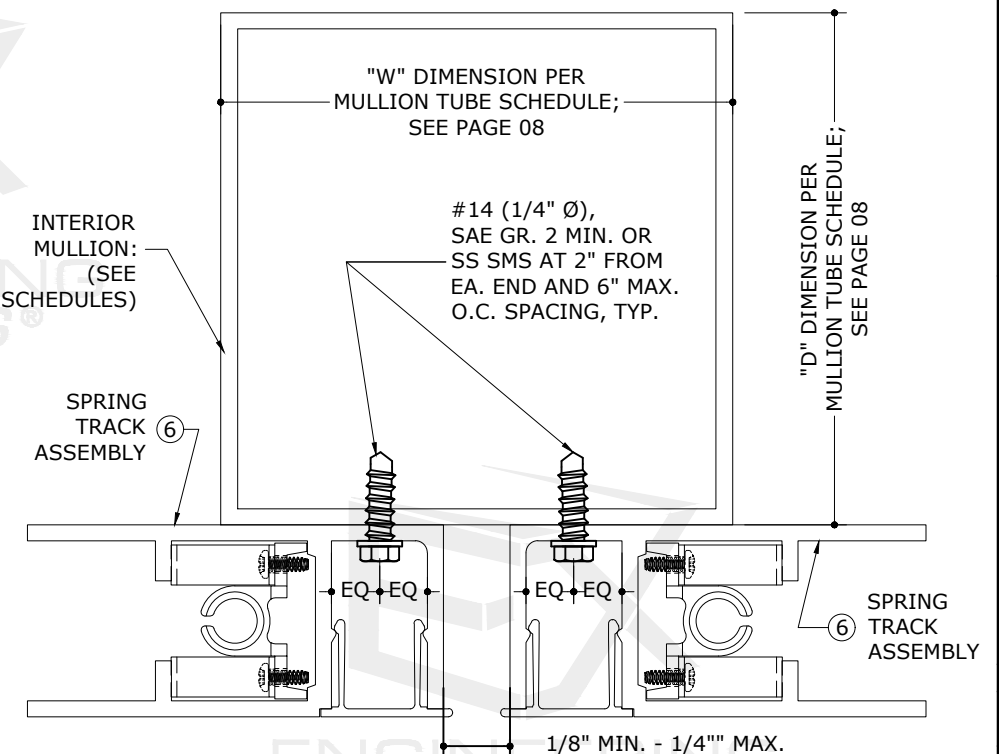
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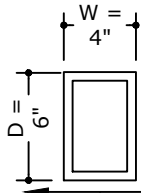
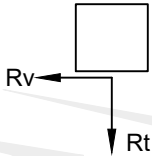
4 FACE MOUNT (INT. MULLION)
23 N.T.S. SECTION VIEW

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MULLION SCHEDULE END REACTIONS KEY:

SEE MULLION SCHEDULE NOTES ON PAGE 22

MULLION
SCHEDULE:
END
MULLIONS



RICHARD NEET, P.E.
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FEBRUARY 26, 2025

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END MULLION SCHEDULE: PAGE (1) OF (2)

			3" x 3" x 1/4" 6061-T6 ALUM TUBE				4" x 4" x 3/16" 6061-T6 ALUM TUBE				4" x 4" x 1/4" 6061-T6 ALUM TUBE				4" x 6" x 1/4" 6061-T6 ALUM TUBE			
MAX. SCREEN SPAN	# OF BOT. ANGLES	MAX. DESIGN PRESSURE	MAX. MULLION LENGTH	END REACTION Rv	END REACTION Rt	END REACTION Rsum	MAX. MULLION LENGTH	END REACTION Rv	END REACTION Rt	END REACTION Rsum	MAX. MULLION LENGTH	END REACTION Rv	END REACTION Rt	END REACTION Rsum	MAX. MULLION LENGTH	END REACTION Rv	END REACTION Rt	END REACTION Rsum
72"	(0)	+/- 20 PSF	118"	543 LB	294 LB	618 LB	144"	664 LB	360 LB	755 LB	144"	664 LB	360 LB	755 LB	144"	664 LB	360 LB	755 LB
		+/- 30 PSF	103"	711 LB	386 LB	809 LB	129"	894 LB	485 LB	1017 LB	140"	969 LB	525 LB	1102 LB	144"	996 LB	540 LB	1133 LB
		+/- 40 PSF	93"	862 LB	467 LB	980 LB	118"	1084 LB	588 LB	1233 LB	127"	1174 LB	636 LB	1335 LB	142"	1313 LB	712 LB	1493 LB
		+/- 50 PSF	87"	1000 LB	542 LB	1138 LB	109"	1257 LB	682 LB	1430 LB	118"	1362 LB	739 LB	1549 LB	132"	1523 LB	826 LB	1733 LB
		+/- 60 PSF	82"	1129 LB	612 LB	1285 LB	103"	1420 LB	770 LB	1615 LB	111"	1538 LB	834 LB	1750 LB	124"	1720 LB	933 LB	1957 LB
		+/- 70 PSF	77"	1250 LB	678 LB	1422 LB	98"	1574 LB	853 LB	1790 LB	106"	1705 LB	924 LB	1939 LB	118"	1906 LB	1034 LB	2169 LB
		+/- 80 PSF	72"	1336 LB	725 LB	1520 LB	93"	1720 LB	933 LB	1957 LB	101"	1863 LB	1010 LB	2120 LB	113"	2084 LB	1130 LB	2371 LB
		+/- 90 PSF	68"	1417 LB	769 LB	1612 LB	90"	1861 LB	1009 LB	2116 LB	97"	2016 LB	1093 LB	2293 LB	109"	2254 LB	1222 LB	2564 LB
		+/- 100 PSF	65"	1494 LB	810 LB	1700 LB	87"	1996 LB	1082 LB	2270 LB	94"	2162 LB	1172 LB	2460 LB	105"	2418 LB	1311 LB	2751 LB
		+/- 110 PSF	62"	1567 LB	850 LB	1783 LB	83"	2109 LB	1144 LB	2400 LB	91"	2304 LB	1249 LB	2621 LB	102"	2577 LB	1397 LB	2931 LB
		+/- 120 PSF	59"	1637 LB	887 LB	1862 LB	80"	2203 LB	1195 LB	2506 LB	88"	2442 LB	1324 LB	2778 LB	99"	2731 LB	1481 LB	3106 LB
		+/- 130 PSF	57"	1704 LB	924 LB	1938 LB	77"	2293 LB	1243 LB	2609 LB	86"	2576 LB	1397 LB	2930 LB	96"	2880 LB	1562 LB	3277 LB
		+/- 140 PSF	55"	1768 LB	959 LB	2011 LB	74"	2380 LB	1290 LB	2707 LB	83"	2683 LB	1455 LB	3052 LB	94"	3026 LB	1641 LB	3443 LB
		+/- 150 PSF	53"	1830 LB	992 LB	2082 LB	71"	2463 LB	1336 LB	2802 LB	80"	2778 LB	1506 LB	3160 LB	92"	3169 LB	1718 LB	3605 LB
96"	(0)	+/- 20 PSF	125"	482 LB	417 LB	637 LB	144"	555 LB	480 LB	734 LB	144"	555 LB	480 LB	734 LB	144"	555 LB	480 LB	734 LB
		+/- 30 PSF	109"	632 LB	546 LB	835 LB	137"	794 LB	686 LB	1049 LB	144"	833 LB	720 LB	1101 LB	144"	833 LB	720 LB	1101 LB
		+/- 40 PSF	99"	765 LB	661 LB	1011 LB	125"	962 LB	832 LB	1271 LB	135"	1042 LB	901 LB	1377 LB	144"	1110 LB	960 LB	1468 LB
		+/- 50 PSF	92"	888 LB	768 LB	1174 LB	116"	1116 LB	965 LB	1475 LB	125"	1209 LB	1045 LB	1598 LB	140"	1352 LB	1169 LB	1787 LB
	(0)	+/- 60 PSF	74"	1288 LB	739 LB	1485 LB	95"	1656 LB	951 LB	1909 LB	103"	1794 LB	1030 LB	2068 LB	115"	2006 LB	1152 LB	2313 LB
		+/- 70 PSF	68"	1391 LB	799 LB	1604 LB	90"	1835 LB	1053 LB	2116 LB	98"	1988 LB	1141 LB	2292 LB	109"	2223 LB	1276 LB	2563 LB
		+/- 80 PSF	64"	1487 LB	854 LB	1715 LB	86"	1998 LB	1147 LB	2304 LB	94"	2173 LB	1248 LB	2505 LB	105"	2430 LB	1395 LB	2802 LB
		+/- 90 PSF	60"	1577 LB	906 LB	1819 LB	81"	2119 LB	1217 LB	2444 LB	90"	2350 LB	1349 LB	2710 LB	101"	2628 LB	1509 LB	3031 LB
		+/- 100 PSF	57"	1662 LB	955 LB	1917 LB	77"	2234 LB	1283 LB	2576 LB	87"	2519 LB	1446 LB	2905 LB	97"	2820 LB	1619 LB	3251 LB
		+/- 110 PSF	55"	1744 LB	1001 LB	2011 LB	73"	2343 LB	1345 LB	2702 LB	83"	2642 LB	1517 LB	3046 LB	94"	3005 LB	1725 LB	3465 LB
		+/- 120 PSF	52"	1821 LB	1046 LB	2100 LB	70"	2447 LB	1405 LB	2822 LB	79"	2759 LB	1584 LB	3182 LB	91"	3184 LB	1828 LB	3672 LB
		+/- 125 PSF	51"	1859 LB	1067 LB	2143 LB	69"	2498 LB	1434 LB	2880 LB	78"	2816 LB	1617 LB	3247 LB	90"	3272 LB	1879 LB	3773 LB
	(1)	+/- 129 PSF	47"	2106 LB	1020 LB	2340 LB	64"	2845 LB	1378 LB	3161 LB	72"	3208 LB	1554 LB	3564 LB	84"	3743 LB	1813 LB	4159 LB
		+/- 135 PSF	45"	2166 LB	1054 LB	2420 LB	62"	2934 LB	1414 LB	3288 LB	70"	3312 LB	1590 LB	3642 LB	82"	3846 LB	1866 LB	4308 LB
120"	(0)	+/- 20 PSF	102"	719 LB	426 LB	836 LB	129"	904 LB	536 LB	1051 LB	139"	979 LB	581 LB	1138 LB	144"	1011 LB	600 LB	1176 LB
		+/- 30 PSF	89"	942 LB	559 LB	1095 LB	112"	1184 LB	703 LB	1377 LB	122"	1283 LB	761 LB	1492 LB	136"	1435 LB	851 LB	1668 LB
		+/- 40 PSF	81"	1141 LB	677 LB	1327 LB	102"	1434 LB	851 LB	1668 LB	111"	1554 LB	922 LB	1807 LB	124"	1738 LB	1031 LB	2021 LB
		+/- 50 PSF	73"	1286 LB	763 LB	1496 LB	95"	1664 LB	988 LB	1935 LB	103"	1803 LB	1070 LB	2097 LB	115"	2017 LB	1197 LB	2345 LB
		+/- 60 PSF	67"	1409 LB	836 LB	1639 LB	89"	1880 LB	1115 LB	2186 LB	97"	2036 LB	1208 LB	2368 LB	108"	2277 LB	1351 LB	2648 LB
		+/- 70 PSF	62"	1522 LB	903 LB	1770 LB	83"	2043 LB	1212 LB	2376 LB	92"	2257 LB	1339 LB	2624 LB	103"	2524 LB	1497 LB	2935 LB
		+/- 80 PSF	58"	1627 LB	965 LB	1892 LB	78"	2184 LB	1296 LB	2540 LB	88"	2463 LB	1461 LB	2864 LB	98"	2759 LB	1637 LB	3208 LB
		+/- 90 PSF	55"	1726 LB	1024 LB	2007 LB	73"	2317 LB	1375 LB	2694 LB	83"	2612 LB	1550 LB	3038 LB	94"	2984 LB	1771 LB	3470 LB
120"	(1)	+/- 108 PSF	45"	2258 LB	1015 LB	2475 LB	61"	3056 LB	1374 LB	3351 LB	69"	3446 LB	1550 LB	3779 LB	81"	4054 LB	1823 LB	4445 LB

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FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA)

REMARKS	DATE	DRWN	CHKD	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
PREV. SUBMITTAL (22-55191) EPR	10/12/23																		
REV. FOR NEW TESTING EPR	02/14/25																		

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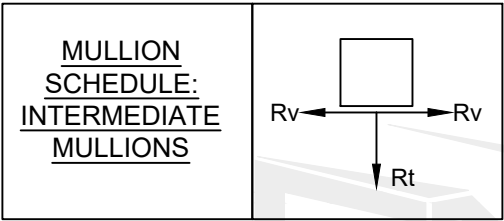
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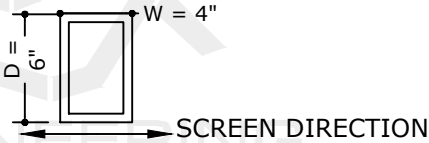
INTERIOR MULLION SCHEDULE: PAGE (2) OF (2)

MAX. SCREEN SPAN	# OF BOT. ANGLES	MAX. DESIGN PRESSURE	3" x 3" x 1/4"		4" x 4" x 3/16"		4" x 4" x 1/4"		4" x 6" x 1/4"	
			MAX. MULLION LENGTH	END REACTION Rt	MAX. MULLION LENGTH	END REACTION Rt	MAX. MULLION LENGTH	END REACTION Rt	MAX. MULLION LENGTH	END REACTION Rt
144"	(0)	+/- 20 PSF	91"	910 LB	114"	1144 LB	124"	1239 LB	144"	1440 LB
		+/- 30 PSF	79"	1192 LB	100"	1499 LB	108"	1624 LB	144"	2160 LB
		+/- 38 PSF	73"	1396 LB	92"	1755 LB	100"	1901 LB	139"	2633 LB
144"	(0)	+/- 50 PSF	67"	1676 LB	84"	2107 LB	91"	2282 LB	126"	3162 LB
		+/- 60 PSF	63"	1892 LB	79"	2379 LB	86"	2577 LB	119"	3571 LB
		+/- 70 PSF	60"	2097 LB	75"	2637 LB	82"	2856 LB	113"	3957 LB
144"	(1)	+/- 76 PSF	58"	2215 LB	73"	2785 LB	79"	3017 LB	110"	4180 LB
		+/- 87 PSF	56"	2424 LB	70"	3048 LB	76"	3302 LB	105"	4574 LB
		+/- 20 PSF	86"	1008 LB	109"	1268 LB	118"	1373 LB	144"	1680 LB
168"	(0)	+/- 30 PSF	75"	1321 LB	95"	1661 LB	103"	1799 LB	142"	2493 LB
		+/- 40 PSF	69"	1600 LB	86"	2012 LB	93"	2180 LB	129"	3020 LB
		+/- 51 PSF	63"	1882 LB	80"	2366 LB	86"	2563 LB	119"	3551 LB
168"	(2)	+/- 60 PSF	60"	2097 LB	75"	2637 LB	82"	2856 LB	113"	3957 LB
		+/- 66 PSF	58"	2235 LB	73"	2810 LB	79"	3044 LB	110"	4217 LB
		+/- 20 PSF	83"	1102 LB	104"	1386 LB	113"	1501 LB	144"	1920 LB
192"	(0)	+/- 27 PSF	75"	1346 LB	94"	1692 LB	102"	1833 LB	141"	2540 LB
		+/- 30 PSF	72"	1444 LB	91"	1816 LB	98"	1967 LB	136"	2725 LB
		+/- 40 PSF	66"	1749 LB	82"	2199 LB	89"	2383 LB	124"	3301 LB
192"	(2)	+/- 45 PSF	63"	1892 LB	79"	2379 LB	86"	2577 LB	119"	3571 LB
		+/- 20 PSF	81"	1148 LB	102"	1443 LB	110"	1563 LB	144"	2040 LB
		+/- 25 PSF	75"	1332 LB	95"	1674 LB	102"	1814 LB	142"	2513 LB
204"	(1)	+/- 20 PSF	79"	1192 LB	100"	1499 LB	108"	1624 LB	144"	2160 LB
		+/- 25 PSF	74"	1383 LB	93"	1739 LB	100"	1884 LB	139"	2610 LB
		+/- 20 PSF	77"	1279 LB	96"	1608 LB	105"	1742 LB	144"	2400 LB
240"	(3)	+/- 22 PSF	74"	1363 LB	93"	1713 LB	101"	1856 LB	140"	2571 LB
		+/- 20 PSF	74"	1363 LB	93"	1713 LB	101"	1856 LB	140"	2571 LB
		+/- 22 PSF	72"	1452 LB	91"	1826 LB	98"	1978 LB	136"	2740 LB
264"	(3)	+/- 20 PSF	72"	1444 LB	91"	1816 LB	98"	1967 LB	136"	2725 LB
		+/- 22 PSF	70"	1539 LB	88"	1935 LB	95"	2096 LB	132"	2904 LB
		+/- 20 PSF	70"	1523 LB	88"	1915 LB	96"	2075 LB	133"	2874 LB
312"	(4)	+/- 20 PSF	69"	1600 LB	86"	2012 LB	93"	2180 LB	129"	3020 LB
336"	(4)	+/- 20 PSF	67"	1676 LB	84"	2107 LB	91"	2282 LB	126"	3162 LB
360"	(4)	+/- 20 PSF	67"	1676 LB	84"	2107 LB	91"	2282 LB	126"	3162 LB

MULLION SCHEDULE END REACTIONS KEY:



NOTE: Rv END REACTIONS FOR INTERMEDIATE MULLIONS ARE CONSIDERED TO ACT IN EQUAL AND OPPOSITE DIRECTIONS, RESULTING IN A ZERO NET Rv REACTION ON THE INTERMEDIATE MULLION.



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02/27/2025

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SA TRACK HURRICANE SCREEN
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA)

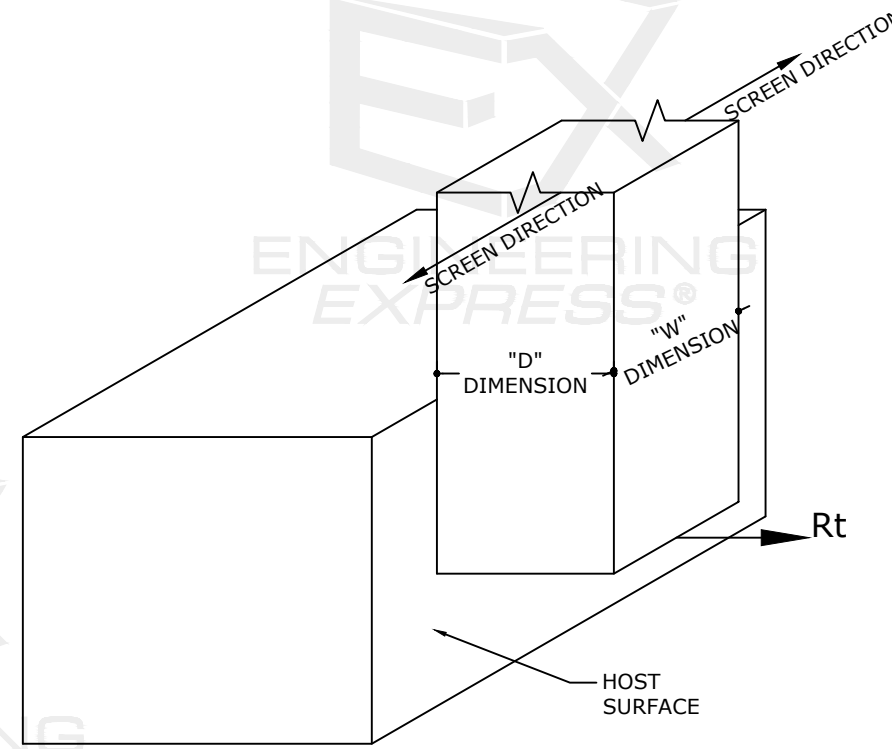
REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (22-55191)	EPR	RWN	10/12/23
REV. FOR NEW TESTING	EPR	RWN	02/14/25

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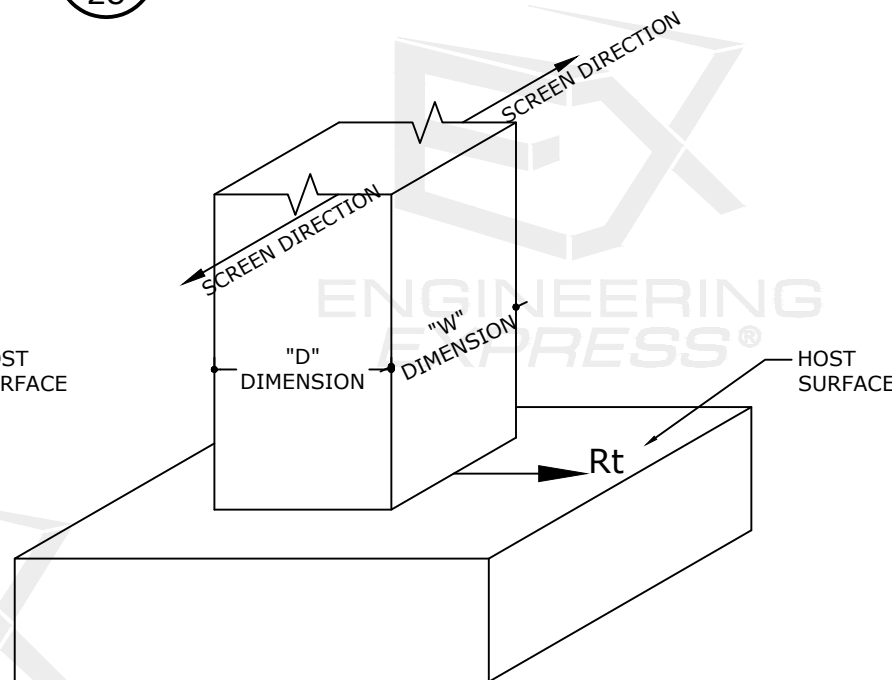
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27 OF 30



INTERIOR MULLION "FACE MOUNT" DIAGRAM

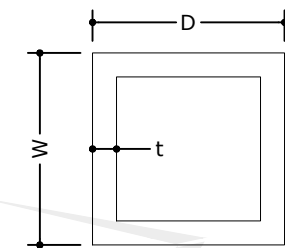


INTERIOR MULLION
"TRAPPED MOUNT" DIAGRAM

4
28

N.T.S.

ISOMETRIC



14 MULLION TUBE, TYP.
NOT TO SCALE 6063-T6 ALUM.

MULLION TUBE (COMPONENT # 14) PER MULLION SCHEDULES:		
W	D	t
3"	3"	1/4"
4"	4"	3/16"
4"	4"	1/4"
4"	6"	1/4"

**SEE MILLION SCHEDULES
& DETAILS HEREIN FOR
LIMITATIONS AND
SPECIFICATIONS**

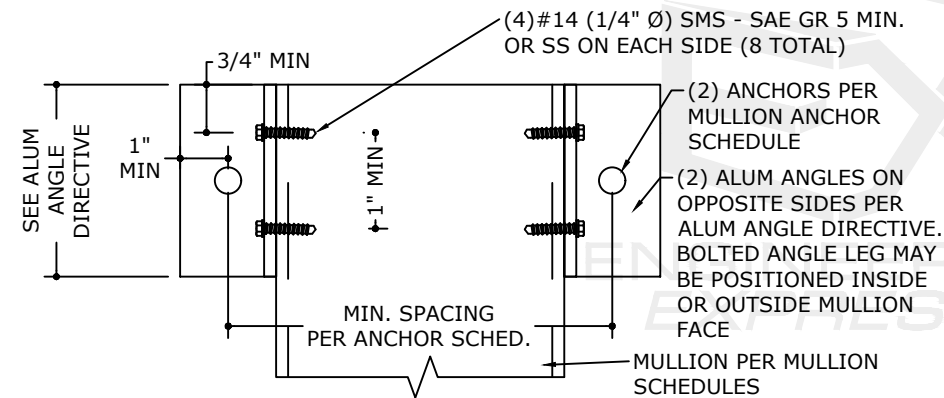
NOTE: FOR NON-SQUARE MULLION TUBES, THE SHORTER "W" DIMENSION SHALL BE ORIENTED PARALLEL TO THE SCREEN DIRECTION, AND THE LONGER "D" DIMENSION SHALL BE ORIENTED PERPENDICULAR TO THE SCREEN DIRECTION.

NOTE: "FACE MOUNT" MAY ALSO BE REFERRED TO AS "WALL MOUNT". BOTH PHRASES REFER TO THE SAME MOUNTING CONDITION.

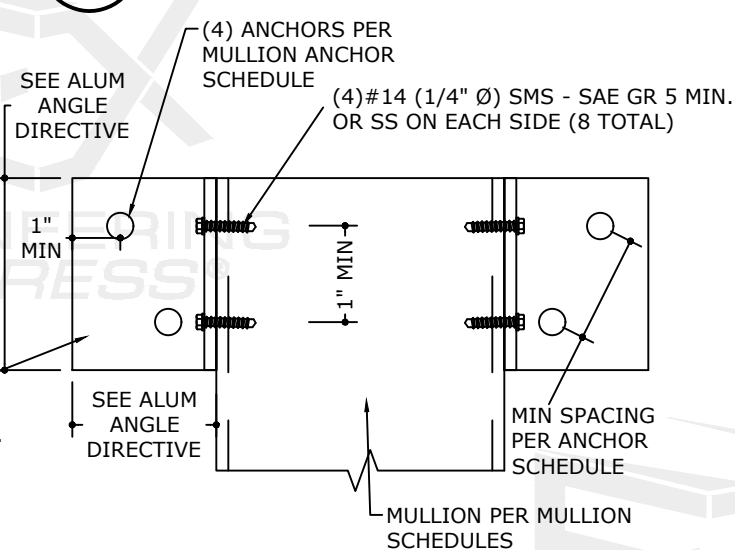
NOTE: "TRAP MOUNT" OR "TRAPPED MOUNT" MAY ALSO BE REFERRED TO AS "INSIDE MOUNT". ALL PHRASES REFER TO THE SAME MOUNTING CONDITION.



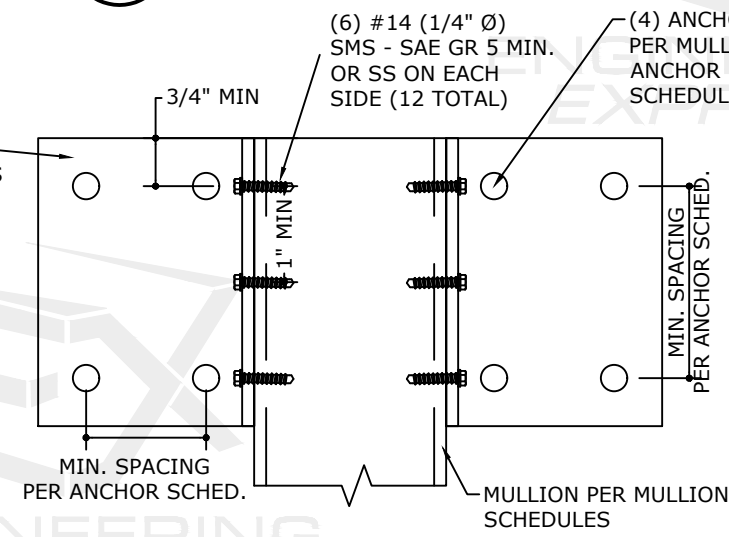
ANGLES MAY BE POSITIONED ON
LONG SIDES OF MULLION AS FIELD
CONDITIONS DICTATE



1B FACE MOUNT OPTION 1

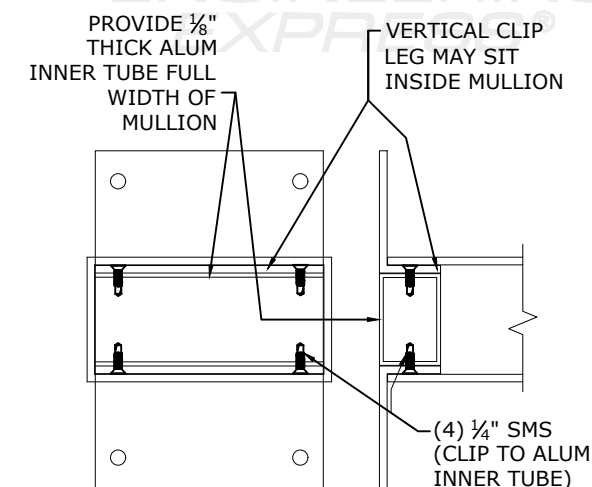
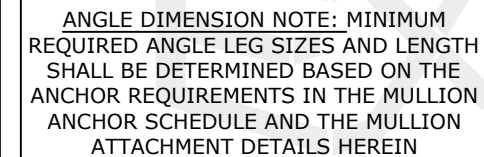


2B FACE MOUNT OPTION 2
29 N.T.S.



3B FACE MOUNT OPTION 3
29 N.T.S.

N.T.S. 6061-T6 OR 6005-T5 ALUM



4 ALT. TRAPPED MOUNT OPTION
29 N.T.S.

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FLORIDA BUILDING CODE EIGHTH EDITION (2023)

FLORIDA STATEWIDE APPROVAL (FSA)

[illegible]

25-82779

SCALE: NTS UNLESS NOTED

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RICHARD NEET, P.E.
PE# 86488 CA# 9885

FEBRUARY 26, 2025

FL

RICHARD NEET
LICENSE
No. P.E. 86488
STATE OF FLORIDA
PROFESSIONAL ENGINEER

02/27/2025

ANCHOR TYPE	MINIMUM SPACING	MINIMUM EDGE DISTANCE	CONNECTION DETAIL	CONNECTION CAPACITY	
				Tcap	Vcap
1/2" DEWALT CONFLX W/ 3-1/2" EMBED TO 3.0KSI MIN CONCRETE	6.0"	3.5"	1A, 1B	Tcap	3534 LB
				Vcap	3441 LB
	4.0"	3.5"	2A, 2B	Tcap	4948 LB
				Vcap	4818 LB
	4.0"	3.5"	3A, 3B	Tcap	9897 LB
				Vcap	9636 LB
3/8" DEWALT CONFLX W/ 3-1/2" EMBED TO 3.0KSI MIN CONCRETE	6.0"	3.75"	1A, 1B	Tcap	3246 LB
				Vcap	3523 LB
	4.0"	3.75"	2A, 2B	Tcap	4869 LB
				Vcap	5285 LB
	4.0"	3.75"	3A, 3B	Tcap	9739 LB
				Vcap	10570 LB
1/2" DEWALT 316SS WEDGE BOLT W/ 2-3/4" EMBED TO 3.0KSI MIN CONCRETE	6.0"	4.5"	1A, 1B	Tcap	1640 LB
				Vcap	2560 LB
	4.0"	4.5"	2A, 2B	Tcap	3280 LB
				Vcap	3584 LB
	4.0"	4.5"	3A, 3B	Tcap	6560 LB
				Vcap	7168 LB
3/8" DEWALT 316SS WEDGE BOLT W/ 3-1/2" EMBED TO 3.0KSI MIN CONCRETE	6.0"	3.0"	1A, 1B	Tcap	1930 LB
				Vcap	828LB
	4.0"	3.0"	2A, 2B	Tcap	3860LB
				Vcap	1656 LB
	4.0"	3.0"	3A, 3B	Tcap	7720 LB
				Vcap	3312 LB
1/2" HILTI KH-EZ W/ 4-1/2" EMBED TO 3.0KSI MIN CONCRETE	6.0"	3.0"	1A, 1B	Tcap	3556 LB
				Vcap	1461LB
	4.0"	3.0"	2A, 2B	Tcap	6234LB
				Vcap	2777 LB
	4.0"	3.0"	3A, 3B	Tcap	12469 LB
				Vcap	5554 LB

ANCHOR TYPE	MINIMUM SPACING	MINIMUM EDGE DISTANCE	CONNECTION DETAIL	CONNECTION CAPACITY	
				Tcap	3660 LB
1/2" DEWALT SCREW BOLTS (OR EQUIV.) W/ 2-1/2" EMBED TO 3KSI MIN. CONCRETE	6"	4.5"	1A, 1B	Vcap	2249 LB
				Tcap	6442 LB
	4.0"	4.5"	2A, 2B	Vcap	4106 LB
				Tcap	12883 LB
	4.0"	4.5"	3A, 3B	Vcap	8213 LB
				Tcap	1905 LB
3/8" DEWALT SCREW BOLTS (OR EQUIV.) W/ 2" EMBED TO 3KSI MIN. CONCRETE	6.0"	2.5"	1A, 1B	Vcap	1007 LB
				Tcap	3801 LB
	3.0"	2.5"	2A, 2B	Vcap	1700 LB
				Tcap	7622 LB
	3.0"	2.5"	3A, 3B	Vcap	3399 LB
				Tcap	1953 LB
3/8" DEWALT SCREW BOLTS (OR EQUIV.) W/ 3-1/4" EMBED TO GROUT-FILLED CONCRETE BLOCK*	6.0"	4.5"	1A, 1B	Vcap	1233 LB
				Tcap	3906 LB
	3.0"	4.5"	2A, 2B	Vcap	2467 LB
				Tcap	7812 LB
	3.0"	4.5"	3A, 3B	Vcap	4934 LB
				Tcap	1310 LB
5/16" LAG SCREW W/ 2" MIN. THREAD PENETRATION TO G=0.42 MIN WOOD	2.0"	1.25"	1A, 1B	Vcap	302 LB
				Tcap	2620 LB
	2.0"	1.25"	2A, 2B	Vcap	604 LB
				Tcap	3930 LB
	2.0"	1.25"	3A, 3B	Vcap	906 LB
				Tcap	1670 LB
5/16" DEWALT ULTRA CON (OR EQUIV.) W/ 2" EMBED TO 3.5KSI MIN CONCRETE	5.0"	3.125"	1A, 1B	Vcap	1700 LB
				Tcap	1820 LB
	3.75"	3.125"	2A, 2B	Vcap	2840 LB
				Tcap	3640 LB
	3.75"	3.125"	3A, 3B	Vcap	5680 LB
				Tcap	580 LB
5/16" DEWALT ULTRA CON (OR EQUIV.) W/ 2-1/4" EMBED TO GROUT-FILLED CONCRETE BLOCK	5.0"	2.5"	1A, 1B	Vcap	750 LB
				Tcap	1160 LB
	5.0"	2.5"	2A, 2B	Vcap	1500 LB
				Tcap	2320 LB
	5.0"	2.5"	3A, 3B	Vcap	3000 LB
				Tcap	

1. FOR "TRAPPED MOUNT" CONDITIONS WITH END MULLIONS, 'Rsum' VALUES IN MULLION SCHEDULE SHALL NOT EXCEED MAX 'Vcap' VALUES NOTED IN THIS SCHEDULE.
2. FOR "FACE MOUNT" CONDITIONS WITH END MULLIONS, **Rv/Vcap + Rt/Tcap SHALL BE LESS THAN OR EQUAL TO 1.0**, WHERE 'Rv' AND 'Rt' ARE PER MULLION SCHEDULES, AND 'Tcap' AND 'Vcap' ARE PER THIS SCHEDULE.
3. FOR "TRAPPED MOUNT" CONDITIONS WITH INTERMEDIATE MULLIONS, 'Rt' VALUES IN MULLION SCHEDULES SHALL NOT EXCEED 'Vcap' VALUES NOTED IN THIS SCHEDULE.
4. FOR "FACE MOUNT" CONDITIONS WITH INTERMEDIATE MULLIONS, 'Rt' VALUES IN MULLION SCHEDULES SHALL NOT EXCEED 'Tcap' VALUES NOTED IN THIS SCHEDULE.

5. * ANCHORS SHALL PENETRATE THROUGH FACE SHELL INTO GROUTED CELL.
6. ALTERNATE ANCHORS AND OR END CONNECTION CONFIGURATIONS MAY BE DESIGNED/CERTIFIED ON A SITE SPECIFIC BASIS BASED ON THE END LOADINGS LISTED IN THE MULLION SCHEDULES.
7. 1/2" Ø UNC THRU BOLTS MAY BE USED IN LEIU OF #14 (1/4" Ø) SMS PER THE FOLLOWING DIRECTIVE:
 - 7.1. (4) SMS PER SIDE = (2) 1/2" Ø UNC THRU BOLTS,
(6) SMS PER SIDE = (3) 1/2" Ø UNC THRU BOLTS.
PROVIDE 1" MIN. OD WASHERS TOP AND BOTTOM AND LOCKING NUT.
THE THRU-BOLT SHALL BE SAE GR. 5 MIN. OR SS, TYP.

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OF
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SCALE: NTS UNLESS NOTED

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REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (22-55191)	EPR	RWN	10/12/23
REV. FOR NEW TESTING	EPR	RWN	02/14/25
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-	-	-	-
-	-	-	-

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